Berliner
Astronomisches Jahrbuch

für

1930

155. Jahrgang

Herausgegeben von dem

Astronomischen Rechen-Institut

Berlin
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1928

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Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich.

Die Zeit ist vom Jahrgang 1925 an in Welt-Zeit, d. i. Bürgerliche Zeit Greenwich, ausgedrückt (siehe Erläuterungen).

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,
Vol. VI, Part I—IV: *Tables of the four inner planets,*
Vol. VII, Part I—IV: *Tables of Jupiter, Saturn, Uranus, Neptune.*

Als Sonnenhalbmesser in der mittleren Entfernung ist 16′ 1″.50 angenommen; dagegen liegt der Berechnung der Finsternisse der von Auwers in A. N., Bd. 128 gegebene Wert 15′ 59″.63 zugrunde.

Für den Mond:

Tables of the Motion of the Moon by Ernest W. Brown.

Der geozentrische Mondhalbmesser $r_{☾}$ ist aus der Äquatorial-Horizontalparallaxe $p_{☾}$ gerechnet nach der Formel

$$r_{☾} = 0.272469\, p_{☾} + 1''.50,$$

für die Finsternisse nach $\sin r_{☾} = 0.272274 \sin p_{☾}$.

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (A. N. Bd. 199, 263) angenommen: $J = 1° 32' 20''$.

Für die Fixsterne:

Neuer Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung Nr. 33 des Königlichen Astronomischen Rechen-Instituts).

Die Sterngrößen sind der »Revised Harvard Photometry (Harvard Annals, vol. 50)«, die Sternspektra dem »Henry Draper Catalogue (Harvard Annals, vol. 91—99)« entnommen.

Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. **28**, 67)

Die Nutations-Konstante . . . . 9".21

Die Nutations-Größen nach S. Newcomb (Bull. Astr. **15**, 241)

Die Aberrations-Konstante . . . . 20".47

Die Sonnen-Parallaxe . . . . 8".80

Die Abplattung der Erde . . . 1 : 297.0

Für die Satelliten:

Die Angaben über die 4 älteren Jupitertrabanten beruhen auf den neuen Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter.* London 1910), die Angaben über die 8 älteren Saturnsatelliten auf den von H. Struve ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Vom vorliegenden Jahrgang an werden die Elemente der in Mitteleuropa sichtbaren Sternbedeckungen gegeben. Im übrigen hat der Inhalt des Jahrbuchs gegen das Vorjahr keine Änderungen erfahren.

Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen.

Ein Teil der Angaben wurde seitens der American Ephemeris and Nautical Almanac, Washington, und des Nautical Almanac Office, London, zur Verfügung gestellt. Die Ephemeride des Kraters Mösting A. ist von dem Institut Astronomique in Leningrad berechnet worden.

Die Schriftleitung des Astronomischen Jahrbuchs für 1930 lag in den Händen von Herrn Kohl, an den verschiedenen Arbeiten beteiligten sich außerdem die Herren Stichtenoth † und Gondolatsch.

Astronomisches Rechen-Institut.

Inhalt

Zeit- und Festrechnung 1930

Das Jahr 1930 entspricht dem
Jahr 6643 der Julianischen Periode und dem
Jahr 7438 — 7439 der Byzantinischen Ära

Gregorianischer Kalender

Goldene Zahl	12
Epakte	*
Sonnenzirkel	7
Sonntagsbuchstabe	E

Septuagesima	16. Febr.
Aschermittwoch	5. März
I. Quatember	12. März
Ostersonntag	20. April
Himmelfahrt	29. Mai
Pfingstsonntag	8. Juni
II. Quatember	11. Juni
III. Quatember	17. Sept.
I. Advent	30. Nov.
IV. Quatember	17. Dez.

Kalender der Mohammedaner

1348 (Gemeinjahr)

Schabân	1	1930	Jan.	2
Ramadân	1	»	Jan.	31
Schewwâl	1	»	März	2
Dsû 'l-kade	1	»	März	31
Dsû 'l-hedsche	1	»	April	30

1349 (Schaltjahr)

Moharrem	1	1930	Mai	29
Safar	1	»	Juni	28
Rebî-el-awwel	1	»	Juli	27
Rebî-el-accher	1	»	Aug.	26
Dschemâdi-el-awwel	1	»	Sept.	24
Dschemâdi-el-accher	1	»	Okt.	24
Redscheb	1	»	Nov.	22
Schabân	1	»	Dez.	22

Kalender der Juden

5690 (Gemeinjahr von 353 Tagen)

Tebet	1	. . . .	1930	Jan.	1
»	10	Fasten. Belagerung Jerusalems . .	»	»	10
Schebat	1	. . . .	»	»	30
Adar	1	. . . .	»	März	1
»	13	Fasten-Esther	»	»	13
»	14	Purim	»	»	14
»	15	Schuschan-Purim	»	»	15
Nisan	1	. . . .	»	»	30
»	15	*Passah-Anfang	»	April	13
»	16	*Zweites Fest	»	»	14
»	21	*Siebentes Fest	»	»	19
»	22	*Achtes Fest	»	»	20
Ijar	1	. . . .	»	»	29
»	18	Lag-B'omer	»	Mai	16
Sivan	1	. . . .	»	»	28
»	6	*Wochenfest	»	Juni	2
»	7	*Zweites Fest	»	»	3
Thamuz	1	. . . .	»	»	27
»	17	Fasten. Tempeleroberung	»	Juli	13
Ab	1	. . . .	»	»	26
»	9	Fasten. Tempelverbrennung . . .	»	Aug.	3
Elul	1	. . . .	»	»	25

5691 (Gemeinjahr von 354 Tagen)

Tischri	1	*Neujahrsfest	1930	Sept.	23
»	2	*Zweites Fest	»	»	24
»	3	Fasten-Gedaljah	»	»	25
»	10	*Versöhnungsfest	»	Okt.	2
»	15	*Laubhüttenfest	»	»	7
»	16	*Zweites Fest	»	»	8
»	21	Palmenfest	»	»	13
»	22	*Laubhüttenende	»	»	14
»	23	*Gesetzesfreude	»	»	15
Marcheschwan	1	. . . .	»	»	23
Kislev	1	. . . .	»	Nov.	21
»	25	Tempelweihe	»	Dez.	15
Tebet	1	. . . .	»	»	21
»	10	Fasten. Belagerung Jerusalems . .	»	»	30

Die mit * bezeichneten Festtage werden streng gefeiert

Astronomische Zeichen und Abkürzungen

Bezeichnung
der
Wochentage

☉ Sonntag
☾ Montag
♂ Dienstag
☿ Mittwoch
♃ Donnerstag
♀ Freitag
♄ Sonnabend

Adspekten

☌ Konjunktion
□ Quadratur
☍ Opposition

Mondphasen

● Neumond
◐ Erstes Viertel
○ Vollmond
◑ Letztes Viertel

☊ Aufsteigender } Knoten
☋ Niedersteigender }

Zeichen
des Tierkreises und der Himmelskörper

♈ Widder . . .	0	Grad	
♉ Stier	30	»	☉ Sonne
♊ Zwillinge . .	60	»	☾ Mond
♋ Krebs	90	»	☿ Merkur
♌ Löwe	120	»	♀ Venus
♍ Jungfrau . .	150	»	♁ Erde
♎ Wage	180	»	♂ Mars
♏ Skorpion . .	210	»	♃ Jupiter
♐ Schütze . . .	240	»	♄ Saturn
♑ Steinbock . .	270	»	♅ Uranus
♒ Wassermann	300	»	♆ Neptun
♓ Fische . . .	330	»	

Sonne, Mond, Große Planeten

1930

Sonne 1930

Tag		Wochentag	0h Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
1930										
Jan.	0	Di	+ 2 44.60	28.87	18 38 28.63	4 25.43	−23 9 19.8	4 17.9	71.12	16 17.79
	1	Mi	3 13.47	28.57	18 42 54.06	4 25.13	23 5 1.9	4 45.6	71.08	16 17.80
	2	Do	3 42.04	28.24	18 47 19.19	4 24.79	23 0 16.3	5 13.2	71.03	16 17.81
	3	Fr	4 10.28	27.87	18 51 43.98	4 24.43	22 55 3.1	5 40.6	70.99	16 17.81
	4	Sa	4 38.15	27.48	18 56 8.41	4 24.03	22 49 22.5	6 7.9	70.94	16 17.81
	5	St	5 5.63	27.04	19 0 32.44	4 23.61	22 43 14.6	6 34.9	70.88	16 17.81
	6	Mo	+ 5 32.67	26.58	19 4 56.05	4 23.14	−22 36 39.7	7 1.7	70.82	16 17.80
	7	Di	5 59.25	26.09	19 9 19.19	4 22.65	22 29 38.0	7 28.3	70.76	16 17.79
	8	Mi	6 25.34	25.58	19 13 41.84	4 22.14	22 22 9.7	7 54.7	70.70	16 17.77
	9	Do	6 50.92	25.03	19 18 3.98	4 21.59	22 14 15.0	8 20.9	70.64	16 17.75
	10	Fr	7 15.95	24.46	19 22 25.57	4 21.01	22 5 54.1	8 46.7	70.56	16 17.72
	11	Sa	7 40.41	23.87	19 26 46.58	4 20.43	21 57 7.4	9 12.3	70.49	16 17.69
	12	St	+ 8 4.28	23.26	19 31 7.01	4 19.82	−21 47 55.1	9 37.7	70.41	16 17.65
	13	Mo	8 27.54	22.63	19 35 26.83	4 19.19	21 38 17.4	10 2.8	70.32	16 17.60
	14	Di	8 50.17	21.99	19 39 46.02	4 18.55	21 28 14.6	10 27.6	70.24	16 17.55
	15	Mi	9 12.16	21.34	19 44 4.57	4 17.89	21 17 47.0	10 52.0	70.15	16 17.49
	16	Do	9 33.50	20.67	19 48 22.46	4 17.22	21 6 55.0	11 16.2	70.06	16 17.43
	17	Fr	9 54.17	19.98	19 52 39.68	4 16.55	20 55 38.8	11 40.1	69.96	16 17.35
	18	Sa	+10 14.15	19.29	19 56 56.23	4 15.85	−20 43 58.7	12 3.8	69.87	16 17.27
	19	St	10 33.44	18.58	20 1 12.08	4 15.14	20 31 54.9	12 27.1	69.77	16 17.19
	20	Mo	10 52.02	17.87	20 5 27.22	4 14.42	20 19 27.8	12 50.1	69.67	16 17.10
	21	Di	11 9.89	17.14	20 9 41.64	4 13.69	20 6 37.7	13 12.7	69.57	16 17.01
	22	Mi	11 27.03	16.39	20 13 55.33	4 12.95	19 53 25.0	13 35.0	69.46	16 16.91
	23	Do	11 43.42	15.63	20 18 8.28	4 12.19	19 39 50.0	13 56.9	69.36	16 16.80
	24	Fr	+11 59.05	14.87	20 22 20.47	4 11.43	−19 25 53.1	14 18.5	69.25	16 16.69
	25	Sa	12 13.92	14.08	20 26 31.90	4 10.65	19 11 34.6	14 39.7	69.14	16 16.58
	26	St	12 28.00	13.30	20 30 42.55	4 9.85	18 56 54.9	15 0.5	69.03	16 16.46
	27	Mo	12 41.30	12.51	20 34 52.40	4 9.06	18 41 54.4	15 21.0	68.91	16 16.34
	28	Di	12 53.81	11.69	20 39 1.46	4 8.25	18 26 33.4	15 41.1	68.80	16 16.22
	29	Mi	13 5.50	10.88	20 43 9.71	4 7.44	18 10 52.3	16 0.7	68.69	16 16.09
	30	Do	+13 16.38	10.07	20 47 17.15	4 6.62	−17 54 51.6	16 20.0	68.58	16 15.96
	31	Fr	13 26.45	9.24	20 51 23.77	4 5.79	17 38 31.6	16 38.7	68.46	16 15.83
Febr.	1	Sa	13 35.69	8.40	20 55 29.56	4 4.97	17 21 52.9	16 57.1	68.35	16 15.69
	2	St	13 44.09	7.57	20 59 34.53	4 4.13	17 4 55.8	17 15.2	68.23	16 15.55
	3	Mo	13 51.66	6.75	21 3 38.66	4 3.30	16 47 40.6	17 32.8	68.11	16 15.41
	4	Di	13 58.41	5.91	21 7 41.96	4 2.47	16 30 7.8	17 49.9	68.00	16 15.26
	5	Mi	+14 4.32	5.08	21 11 44.43	4 1.63	−16 12 17.9	18 6.5	67.88	16 15.11
	6	Do	14 9.40	4.25	21 15 46.06	4 0.81	15 54 11.4	18 22.8	67.77	16 14.95
	7	Fr	14 13.65	3.43	21 19 46.87	3 59.98	15 35 48.6	18 38.7	67.66	16 14.80
	8	Sa	14 17.08	2.60	21 23 46.85	3 59.16	15 17 9.9	18 54.1	67.54	16 14.64
	9	St	14 19.68	1.79	21 27 46.01	3 58.35	14 58 15.8	19 9.1	67.43	16 14.47
	10	Mo	+14 21.47		21 31 44.36		−14 39 6.7		67.32	16 14.30

Tag	Julian. Zeit	Sternzeit	Mittleres Äquinoktium 1930.0 Länge		Breite	log R		Aufgang in (+50° Breite, 0h Länge)	Untergang in (+50° Breite, 0h Länge)
1930	242	h m s	° ′ ″	′ ″	″			h m	h m
Jan. 0	5976.5	6 35 44.03	278 50 47.6	61 10.5	−0.13	9.992 7039	53	7 59	16 7
1	5977.5	6 39 40.58	279 51 58.1	61 10.5	−0.18	9.992 6986	36	7 59	16 8
2	5978.5	6 43 37.14	280 53 8.6	61 10.5	−0.21	9.992 6950	18	7 59	16 9
3	5979.5	6 47 33.70	281 54 19.1	61 10.3	−0.22	9.992 6932	1	7 59	16 10
4	5980.5	6 51 30.26	282 55 29.4	61 10.0	−0.19	9.992 6931	18	7 59	16 ~~12~~ 11
5	5981.5	6 55 26.82	283 56 39.4	61 9.8	−0.13	9.992 6949	38	7 58	16 12
6	5982.5	6 59 23.38	284 57 49.2	61 9.4	−0.06	9.992 6987	58	7 58	16 14
7	5983.5	7 3 19.94	285 58 58.6	61 9.0	+0.04	9.992 7045	79	7 58	16 15
8	5984.5	7 7 16.50	287 0 7.6	61 8.5	+0.16	9.992 7124	101	7 58	16 16
9	5985.5	7 11 13.05	288 1 16.1	61 7.9	+0.29	9.992 7225	125	7 57	16 17
10	5986.5	7 15 9.61	289 2 24.0	61 7.4	+0.42	9.992 7350	150	7 56	16 19
11	5987.5	7 19 6.17	290 3 31.4	61 6.8	+0.56	9.992 7500	176	7 56	16 20
12	5988.5	7 23 2.73	291 4 38.2	61 6.2	+0.68	9.992 7676	203	7 56	16 21
13	5989.5	7 26 59.29	292 5 44.4	61 5.7	+0.77	9.992 7879	232	7 55	16 23
14	5990.5	7 30 55.85	293 6 50.1	61 5.2	+0.84	9.992 8111	261	7 54	16 24
15	5991.5	7 34 52.40	294 7 55.3	61 4.7	+0.90	9.992 8372	289	7 54	16 26
16	5992.5	7 38 48.96	295 9 0.0	61 4.3	+0.92	9.992 8661	318	7 53	16 27
17	5993.5	7 42 45.52	296 10 4.3	61 3.9	+0.91	9.992 8979	347	7 52	16 29
18	5994.5	7 46 42.08	297 11 8.2	61 3.6	+0.86	9.992 9326	373	7 51	16 30
19	5995.5	7 50 38.64	298 12 11.8	61 3.3	+0.79	9.992 9699	398	7 50	16 32
20	5996.5	7 54 35.19	299 13 15.1	61 2.8	+0.69	9.993 0097	422	7 49	16 33
21	5997.5	7 58 31.75	300 14 17.9	61 2.5	+0.58	9.993 0519	444	7 48	16 35
22	5998.5	8 2 28.31	301 15 20.4	61 2.1	+0.46	9.993 0963	465	7 47	16 36
23	5999.5	8 6 24.87	302 16 22.5	61 1.6	+0.33	9.993 1428	484	7 46	16 38
24	6000.5	8 10 21.42	303 17 24.1	61 1.0	+0.20	9.993 1912	502	7 45	16 40
25	6001.5	8 14 17.98	304 18 25.1	61 0.4	+0.08	9.993 2414	520	7 44	16 41
26	6002.5	8 18 14.54	305 19 25.5	60 59.8	−0.02	9.993 2934	536	7 43	16 43
27	6003.5	8 22 11.10	306 20 25.3	60 59.0	−0.09	9.993 3470	551	7 42	16 45
28	6004.5	8 26 7.65	307 21 24.3	60 58.1	−0.14	9.993 4021	567	7 40	16 46
29	6005.5	8 30 4.21	308 22 22.4	60 57.2	−0.17	9.993 4588	582	7 39	16 48
30	6006.5	8 34 0.77	309 23 19.6	60 56.2	−0.17	9.993 5170	596	7 38	16 50
31	6007.5	8 37 57.32	310 24 15.8	60 55.2	−0.14	9.993 5766	610	7 36	16 51
Febr. 1	6008.5	8 41 53.88	311 25 11.0	60 53.9	−0.09	9.993 6376	625	7 35	16 53
2	6009.5	8 45 50.44	312 26 4.9	60 52.7	−0.02	9.993 7001	639	7 34	16 55
3	6010.5	8 49 46.99	313 26 57.6	60 51.5	+0.07	9.993 7640	654	7 32	16 56
4	6011.5	8 53 43.55	314 27 49.1	60 49.9	+0.18	9.993 8294	670	7 31	16 58
5	6012.5	8 57 40.11	315 28 39.0	60 48.6	+0.31	9.993 8964	685	7 29	17 0
6	6013.5	9 1 36.66	316 29 27.6	60 47.0	+0.44	9.993 9649	703	7 28	17 2
7	6014.5	9 5 33.22	317 30 14.6	60 45.5	+0.57	9.994 0352	722	7 26	17 3
8	6015.5	9 9 29.77	318 31 0.1	60 43.9	+0.68	9.994 1074	741	7 24	17 5
9	6016.5	9 13 26.33	319 31 44.0	60 42.4	+0.78	9.994 1815	762	7 23	17 7
10	6017.5	9 17 22.89	320 32 26.4		+0.87	9.994 2577		7 21	17 8

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung, Mittlere Zeit *minus* Wahre Zeit (m s)	Diff. (s)	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	Halbe Durchgangs-Dauer St.-Zt. (s)	Halbmesser (′ ″)
1930									
Febr. 10	Mo	+14 21.47	1.00	21 31 44.36	3 57.55	−14 39 6.7	19 23.7	67.32	16 14.30
11	Di	14 22.47	0.21	21 35 41.91	3 56.77	14 19 43.0	19 37.9	67.21	16 14.12
12	Mi	14 22.68	0.57	21 39 38.68	3 55.99	14 0 5.1	19 51.6	67.10	16 13.94
13	Do	14 22.11	1.32	21 43 34.67	3 55.23	13 40 13.5	20 5.1	66.99	16 13.75
14	Fr	14 20.79	2.06	21 47 29.90	3 54.49	13 20 8.4	20 18.1	66.88	16 13.56
15	Sa	14 18.73	2.79	21 51 24.39	3 53.76	12 59 50.3	20 30.7	66.78	16 13.37
16	St	+14 15.94	3.51	21 55 18.15	3 53.05	−12 39 19.6	20 42.9	66.67	16 13.17
17	Mo	14 12.43	4.21	21 59 11.20	3 52.35	12 18 36.7	20 54.8	66.57	16 12.96
18	Di	14 8.22	4.89	22 3 3.55	3 51.67	11 57 41.9	21 6.3	66.47	16 12.75
19	Mi	14 3.33	5.55	22 6 55.22	3 51.00	11 36 35.6	21 17.3	66.37	16 12.54
20	Do	13 57.78	6.21	22 10 46.22	3 50.35	11 15 18.3	21 28.0	66.27	16 12.32
21	Fr	13 51.57	6.84	22 14 36.57	3 49.70	10 53 50.3	21 38.2	66.17	16 12.10
22	Sa	+13 44.73	7.47	22 18 26.27	3 49.08	−10 32 12.1	21 48.1	66.08	16 11.87
23	St	13 37.26	8.09	22 22 15.35	3 48.47	10 10 24.0	21 57.5	65.99	16 11.65
24	Mo	13 29.17	8.69	22 26 3.82	3 47.87	9 48 26.5	22 6.5	65.90	16 11.42
25	Di	13 20.48	9.28	22 29 51.69	3 47.28	9 26 20.0	22 15.1	65.81	16 11.19
26	Mi	13 11.20	9.85	22 33 38.97	3 46.71	9 4 4.9	22 23.3	65.73	16 10.95
27	Do	13 1.35	10.40	22 37 25.68	3 46.15	8 41 41.6	22 31.1	65.64	16 10.72
28	Fr	+12 50.95	10.94	22 41 11.83	3 45.61	− 8 19 10.5	22 38.4	65.56	16 10.48
März 1	Sa	12 40.01	11.47	22 44 57.44	3 45.08	7 56 32.1	22 45.3	65.48	16 10.25
2	St	12 28.54	11.99	22 48 42.52	3 44.57	7 33 46.8	22 51.8	65.41	16 10.01
3	Mo	12 16.55	12.48	22 52 27.09	3 44.07	7 10 55.0	22 57.9	65.34	16 9.77
4	Di	12 4.07	12.96	22 56 11.16	3 43.59	6 47 57.1	23 3.6	65.27	16 9.53
5	Mi	11 51.11	13.43	22 59 54.75	3 43.12	6 24 53.5	23 8.8	65.20	16 9.28
6	Do	+11 37.68	13.89	23 3 37.87	3 42.67	− 6 1 44.7	23 13.7	65.13	16 9.04
7	Fr	11 23.79	14.31	23 7 20.54	3 42.25	5 38 31.0	23 18.0	65.06	16 8.80
8	Sa	11 9.48	14.72	23 11 2.79	3 41.83	5 15 13.0	23 22.1	65.00	16 8.55
9	St	10 54.76	15.11	23 14 44.62	3 41.44	4 51 50.9	23 25.8	64.95	16 8.30
10	Mo	10 39.65	15.49	23 18 26.06	3 41.07	4 28 25.1	23 29.0	64.89	16 8.05
11	Di	10 24.16	15.84	23 22 7.13	3 40.72	4 4 56.1	23 31.9	64.84	16 7.80
12	Mi	+10 8.32	16.16	23 25 47.85	3 40.39	− 3 41 24.2	23 34.4	64.79	16 7.54
13	Do	9 52.16	16.46	23 29 28.24	3 40.09	3 17 49.8	23 36.7	64.75	16 7.28
14	Fr	9 35.70	16.74	23 33 8.33	3 39.81	2 54 13.1	23 38.4	64.71	16 7.02
15	Sa	9 18.96	16.99	23 36 48.14	3 39.56	2 30 34.7	23 39.9	64.67	16 6.76
16	St	9 1.97	17.22	23 40 27.70	3 39.34	2 6 54.8	23 41.2	64.63	16 6.49
17	Mo	8 44.75	17.42	23 44 7.04	3 39.13	1 43 13.6	23 42.0	64.60	16 6.22
18	Di	+ 8 27.33	17.60	23 47 46.17	3 38.95	− 1 19 31.6	23 42.5	64.57	16 5.95
19	Mi	8 9.73	17.76	23 51 25.12	3 38.80	0 55 49.1	23 42.7	64.54	16 5.67
20	Do	7 51.97	17.89	23 55 3.92	3 38.67	0 32 6.4	23 42.5	64.52	16 5.40
21	Fr	7 34.08	18.01	23 58 42.59	3 38.54	− 0 8 23.9	23 41.9	64.50	16 5.12
22	Sa	7 16.07	18.10	0 2 21.13	3 38.44	+ 0 15 18.0	23 41.0	64.48	16 4.84
23	St	+ 6 57.97		0 5 59.57		+ 0 38 59.0		64.47	16 4.56

Tag	Julian. Zeit	Sternzeit	Mittleres Äquinoktium 1930.0 Länge		Breite	log R		Aufgang in {+50° Breite, 0h Länge}	Untergang in {+50° Breite, 0h Länge}
1930	2426	h m s	° ′ ″	′ ″	″			h m	h m
Febr. 10	017.5	9 17 22.89	320 32 26.4	60 40.8	+0.87	9.994 2577	784	7 21	17 8
11	018.5	9 21 19.44	321 33 7.2	60 39.1	+0.92	9.994 3361	806	7 20	17 10
12	019.5	9 25 16.00	322 33 46.3	60 37.8	+0.93	9.994 4167	830	7 18	17 12
13	020.5	9 29 12.55	323 34 24.1	60 36.2	+0.92	9.994 4997	854	7 16	17 14
14	021.5	9 33 9.11	324 35 0.3	60 34.9	+0.88	9.994 5851	876	7 14	17 16
15	022.5	9 37 5.66	325 35 35.2	60 33.6	+0.81	9.994 6727	898	7 12	17 17
16	023.5	9 41 2.22	326 36 8.8	60 32.1	+0.70	9.994 7625	919	7 11	17 19
17	024.5	9 44 58.77	327 36 40.9	60 31.0	+0.58	9.994 8544	939	7 9	17 21
18	025.5	9 48 55.33	328 37 11.9	60 29.8	+0.45	9.994 9483	956	7 7	17 22
19	026.5	9 52 51.88	329 37 41.7	60 28.3	+0.31	9.995 0439	973	7 5	17 24
20	027.5	9 56 48.44	330 38 10.0	60 27.1	+0.18	9.995 1412	987	7 3	17 26
21	028.5	10 0 44.99	331 38 37.1	60 25.8	+0.06	9.995 2399	1000	7 1	17 28
22	029.5	10 4 41.55	332 39 2.9	60 24.4	—0.05	9.995 3399	1012	6 59	17 29
23	030.5	10 8 38.10	333 39 27.3	60 22.8	—0.14	9.995 4411	1024	6 57	17 31
24	031.5	10 12 34.66	334 39 50.1	60 21.4	—0.20	9.995 5435	1033	6 55	17 32
25	032.5	10 16 31.21	335 40 11.5	60 19.9	—0.23	9.995 6468	1042	6 53	17 34
26	033.5	10 20 27.77	336 40 31.4	60 18.4	—0.24	9.995 7510	1049	6 51	17 36
27	034.5	10 24 24.32	337 40 49.8	60 16.7	—0.22	9.995 8559	1056	6 49	17 38
28	035.5	10 28 20.88	338 41 6.5	60 14.8	—0.18	9.995 9615	1062	6 47	17 39
März 1	036.5	10 32 17.43	339 41 21.3	60 13.1	—0.12	9.996 0677	1068	6 45	17 41
2	037.5	10 36 13.98	340 41 34.4	60 11.3	—0.03	9.996 1745	1074	6 43	17 42
3	038.5	10 40 10.54	341 41 45.7	60 9.4	+0.08	9.996 2819	1079	6 41	17 44
4	039.5	10 44 7.09	342 41 55.1	60 7.3	+0.20	9.996 3898	1085	6 39	17 46
5	040.5	10 48 3.65	343 42 2.4	60 5.2	+0.32	9.996 4983	1091	6 37	17 47
6	041.5	10 52 0.20	344 42 7.6	60 3.0	+0.45	9.996 6074	1098	6 35	17 49
7	042.5	10 55 56.75	345 42 10.6	60 1.0	+0.57	9.996 7172	1105	6 33	17 51
8	043.5	10 59 53.31	346 42 11.6	59 58.8	+0.67	9.996 8277	1114	6 31	17 52
9	044.5	11 3 49.86	347 42 10.4	59 56.5	+0.75	9.996 9391	1125	6 29	17 54
10	045.5	11 7 46.41	348 42 6.9	59 54.3	+0.80	9.997 0516	1135	6 26	17 56
11	046.5	11 11 42.97	349 42 1.2	59 52.2	+0.83	9.997 1651	1147	6 24	17 57
12	047.5	11 15 39.52	350 41 53.4	59 50.0	+0.82	9.997 2798	1160	6 22	17 59
13	048.5	11 19 36.08	351 41 43.4	59 47.9	+0.76	9.997 3958	1173	6 20	18 0
14	049.5	11 23 32.63	352 41 31.3	59 45.9	+0.68	9.997 5131	1187	6 18	18 2
15	050.5	11 27 29.18	353 41 17.2	59 43.9	+0.58	9.997 6318	1200	6 16	18 4
16	051.5	11 31 25.74	354 41 1.1	59 41.9	+0.46	9.997 7518	1212	6 14	18 5
17	052.5	11 35 22.29	355 40 43.0	59 40.2	+0.33	9.997 8730	1224	6 12	18 7
18	053.5	11 39 18.84	356 40 23.2	59 38.5	+0.18	9.997 9954	1234	6 9	18 8
19	054.5	11 43 15.40	357 40 1.7	59 36.7	+0.05	9.998 1188	1242	6 7	18 10
20	055.5	11 47 11.95	358 39 38.4	59 34.9	—0.08	9.998 2430	1248	6 5	18 12
21	056.5	11 51 8.50	359 39 13.3	59 33.1	—0.20	9.998 3678	1253	6 3	18 13
22	057.5	11 55 5.06	0 38 46.4	59 31.4	—0.29	9.998 4931	1258	6 1	18 15
23	058.5	11 59 1.61	1 38 17.8		—0.35	9.998 6189		5 58	18 16

Column header: 0h Welt-Zeit (spanning Julian. Zeit through log R).

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1930		m s	s	h m s	m s	° ' "	' "	s	' "
März 23	St	+6 57.97	18.18	0 5 59.57	3 38.38	+ 0 38 59.0	23 39.7	64.47	16 4.56
24	Mo	6 39.79	18.23	0 9 37.95	3 38.33	1 2 38.7	23 38.1	64.46	16 4.28
25	Di	6 21.56	18.27	0 13 16.28	3 38.28	1 26 16.8	23 36.1	64.45	16 4.00
26	Mi	6 3.29	18.28	0 16 54.56	3 38.26	1 49 52.9	23 33.7	64.44	16 3.72
27	Do	5 45.01	18.29	0 20 32.82	3 38.27	2 13 26.6	23 31.0	64.44	16 3.44
28	Fr	5 26.72	18.27	0 24 11.09	3 38.29	2 36 57.6	23 27.9	64.44	16 3.16
29	Sa	+5 8.45	18.23	0 27 49.38	3 38.32	+ 3 0 25.5	23 24.4	64.44	16 2.89
30	St	4 50.22	18.18	0 31 27.70	3 38.37	3 23 49.9	23 20.6	64.45	16 2.61
31	Mo	4 32.04	18.11	0 35 6.07	3 38.44	3 47 10.5	23 16.3	64.46	16 2.33
April 1	Di	4 13.93	18.03	0 38 44.51	3 38.53	4 10 26.8	23 11.7	64.47	16 2.06
2	Mi	3 55.90	17.93	0 42 23.04	3 38.62	4 33 38.5	23 6.7	64.49	16 1.78
3	Do	3 37.97	17.82	0 46 1.66	3 38.74	4 56 45.2	23 1.3	64.51	16 1.51
4	Fr	+3 20.15	17.68	0 49 40.40	3 38.87	+ 5 19 46.5	22 55.6	64.53	16 1.24
5	Sa	3 2.47	17.54	0 53 19.27	3 39.02	5 42 42.1	22 49.5	64.55	16 0.97
6	St	2 44.93	17.37	0 56 58.29	3 39.18	6 5 31.6	22 43.0	64.58	16 0.70
7	Mo	2 27.56	17.18	1 0 37.47	3 39.37	6 28 14.6	22 36.1	64.61	16 0.44
8	Di	2 10.38	16.98	1 4 16.84	3 39.57	6 50 50.7	22 29.1	64.64	16 0.17
9	Mi	1 53.40	16.76	1 7 56.41	3 39.80	7 13 19.8	22 21.7	64.67	15 59.90
10	Do	+1 36.64	16.52	1 11 36.21	3 40.04	+ 7 35 41.5	22 13.8	64.71	15 59.63
11	Fr	1 20.12	16.25	1 15 16.25	3 40.30	7 57 55.3	22 5.7	64.75	15 59.37
12	Sa	1 3.87	15.97	1 18 56.55	3 40.59	8 20 1.0	21 57.4	64.79	15 59.10
13	St	0 47.90	15.67	1 22 37.14	3 40.89	8 41 58.4	21 48.7	64.83	15 58.83
14	Mo	0 32.23	15.34	1 26 18.03	3 41.21	9 3 47.1	21 39.6	64.88	15 58.56
15	Di	0 16.89	14.99	1 29 59.24	3 41.56	9 25 26.7	21 30.3	64.93	15 58.29
16	Mi	+0 1.90	14.63	1 33 40.80	3 41.93	+ 9 46 57.0	21 20.7	64.98	15 58.02
17	Do	—0 12.73	14.25	1 37 22.73	3 42.30	10 8 17.7	21 10.8	65.03	15 57.75
18	Fr	0 26.98	13.85	1 41 5.03	3 42.70	10 29 28.5	21 0.6	65.08	15 57.48
19	Sa	0 40.83	13.44	1 44 47.73	3 43.12	10 50 29.1	20 49.9	65.14	15 57.21
20	St	0 54.27	13.02	1 48 30.85	3 43.54	11 11 19.0	20 39.0	65.20	15 56.94
21	Mo	1 7.29	12.57	1 52 14.39	3 43.98	11 31 58.0	20 27.8	65.26	15 56.68
22	Di	—1 19.86	12.12	1 55 58.37	3 44.44	+11 52 25.8	20 16.2	65.32	15 56.41
23	Mi	1 31.98	11.65	1 59 42.81	3 44.90	12 12 42.0	20 4.2	65.38	15 56.15
24	Do	1 43.63	11.18	2 3 27.71	3 45.38	12 32 46.2	19 52.0	65.45	15 55.89
25	Fr	1 54.81	10.69	2 7 13.09	3 45.86	12 52 38.2	19 39.4	65.52	15 55.63
26	Sa	2 5.50	10.19	2 10 58.95	3 46.36	13 12 17.6	19 26.5	65.59	15 55.38
27	St	2 15.69	9.69	2 14 45.31	3 46.86	13 31 44.1	19 13.2	65.66	15 55.13
28	Mo	—2 25.38	9.19	2 18 32.17	3 47.37	+13 50 57.3	18 59.4	65.73	15 54.88
29	Di	2 34.57	8.67	2 22 19.54	3 47.89	14 9 56.7	18 45.5	65.81	15 54.63
30	Mi	2 43.24	8.16	2 26 7.43	3 48.41	14 28 42.2	18 31.2	65.88	15 54.39
Mai 1	Do	2 51.40	7.63	2 29 55.84	3 48.92	14 47 13.4	18 16.5	65.96	15 54.15
2	Fr	2 59.03	7.11	2 33 44.76	3 49.44	15 5 29.9	18 1.4	66.03	15 53.92
3	Sa	—3 6.14		2 37 34.20		+15 23 31.3		66.11	15 53.69

Tag	Julian. Zeit	Sternzeit	0ʰ Welt-Zeit — Mittleres Äquinoktium 1930.0 — Länge		Breite	log R		Auf-gang	Unter-gang
								in {+50° Breite, 0ʰ Länge	
1930	2426	h m s	° ′ ″	′ ″	″			h m	h m
März 23	058.5	11 59 1.61	1 38 17.8	59 29.7	—0.35	9.998 6189	1260	5 58	18 16
24	059.5	12 2 58.16	2 37 47.5	59 27.8	—0.40	9.998 7449	1261	5 56	18 18
25	060.5	12 6 54.72	3 37 15.3	59 26.0	—0.42	9.998 8710	1261	5 54	18 20
26	061.5	12 10 51.27	4 36 41.3	59 24.2	—0.41	9.998 9971	1260	5 52	18 21
27	062.5	12 14 47.83	5 36 5.5	59 22.4	—0.37	9.999 1231	1257	5 50	18 23
28	063.5	12 18 44.38	6 35 27.9	59 20.4	—0.30	9.999 2488	1254	5 47	18 24
29	064.5	12 22 40.93	7 34 48.3	59 18.3	—0.22	9.999 3742	1250	5 45	18 26
30	065.5	12 26 37.49	8 34 6.6	59 16.5	—0.12	9.999 4992	1245	5 43	18 27
31	066.5	12 30 34.04	9 33 23.1	59 14.4	0.00	9.999 6237	1239	5 41	18 29
April 1	067.5	12 34 30.59	10 32 37.5	59 12.1	+0.14	9.999 7476	1233	5 39	18 30
2	068.5	12 38 27.15	11 31 49.6	59 10.0	+0.27	9.999 8709	1228	5 37	18 32
3	069.5	12 42 23.70	12 30 59.6	59 7.7	+0.39	9.999 9937	1223	5 34	18 34
4	070.5	12 46 20.25	13 30 7.3	59 5.5	+0.49	0.000 1160	1219	5 32	18 35
5	071.5	12 50 16.81	14 29 12.8	59 3.1	+0.58	0.000 2379	1215	5 30	18 37
6	072.5	12 54 13.36	15 28 15.9	59 0.8	+0.64	0.000 3594	1213	5 28	18 38
7	073.5	12 58 9.92	16 27 16.7	58 58.3	+0.67	0.000 4807	1211	5 26	18 40
8	074.5	13 2 6.47	17 26 15.0	58 56.1	+0.66	0.000 6018	1211	5 24	18 41
9	075.5	13 6 3.02	18 25 11.1	58 53.9	+0.63	0.000 7229	1212	5 22	18 43
10	076.5	13 9 59.58	19 24 5.0	58 51.6	+0.55	0.000 8441	1214	5 20	18 45
11	077.5	13 13 56.13	20 22 56.6	58 49.5	+0.45	0.000 9655	1216	5 17	18 46
12	078.5	13 17 52.69	21 21 46.1	58 47.4	+0.34	0.001 0871	1218	5 15	18 48
13	079.5	13 21 49.24	22 20 33.5	58 45.3	+0.21	0.001 2089	1220	5 13	18 49
14	080.5	13 25 45.79	23 19 18.8	58 43.4	+0.06	0.001 3309	1222	5 11	18 50
15	081.5	13 29 42.35	24 18 2.2	58 41.6	—0.08	0.001 4531	1222	5 9	18 52
16	082.5	13 33 38.90	25 16 43.8	58 39.9	—0.22	0.001 5753	1222	5 7	18 54
17	083.5	13 37 35.46	26 15 23.7	58 38.0	—0.34	0.001 6975	1220	5 5	18 56
18	084.5	13 41 32.01	27 14 1.7	58 36.4	—0.45	0.001 8195	1217	5 3	18 57
19	085.5	13 45 28.57	28 12 38.1	58 34.7	—0.52	0.001 9412	1213	5 1	18 59
20	086.5	13 49 25.12	29 11 12.8	58 33.0	—0.57	0.002 0625	1206	4 59	19 0
21	087.5	13 53 21.68	30 9 45.8	58 31.3	—0.60	0.002 1831	1200	4 57	19 2
22	088.5	13 57 18.23	31 8 17.1	58 29.8	—0.60	0.002 3031	1192	4 55	19 3
23	089.5	14 1 14.79	32 6 46.9	58 28.2	—0.57	0.002 4223	1181	4 53	19 5
24	090.5	14 5 11.34	33 5 15.1	58 26.4	—0.52	0.002 5404	1171	4 51	19 6
25	091.5	14 9 7.90	34 3 41.5	58 24.8	—0.44	0.002 6575	1159	4 49	19 8
26	092.5	14 13 4.45	35 2 6.3	58 23.2	—0.35	0.002 7734	1144	4 47	19 10
27	093.5	14 17 1.01	36 0 29.5	58 21.4	—0.23	0.002 8878	1130	4 45	19 11
28	094.5	14 20 57.56	36 58 50.9	58 19.7	—0.11	0.003 0008	1116	4 44	19 13
29	095.5	14 24 54.12	37 57 10.6	58 17.8	+0.01	0.003 1124	1100	4 42	19 14
30	096.5	14 28 50.67	38 55 28.4	58 16.1	+0.14	0.003 2224	1083	4 40	19 16
Mai 1	097.5	14 32 47.23	39 53 44.5	58 14.2	+0.27	0.003 3307	1068	4 38	19 17
2	098.5	14 36 43.78	40 51 58.7	58 12.2	+0.37	0.003 4375	1052	4 36	19 19
3	099.5	14 40 40.34	41 50 10.9		+0.43	0.003 5427		4 34	19 20

Tag		Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit	Diff.	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1930			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Mai	3	Sa	−3 6.14	6.58	2 37 34.20	3 49.98	+15 23 31.3	17 46.0	66.11	15 53.69
	4	St	3 12.72	6.04	2 41 24.18	3 50.51	15 41 17.3	17 30.4	66.19	15 53.46
	5	Mo	3 18.76	5.50	2 45 14.69	3 51.05	15 58 47.7	17 14.4	66.27	15 53.24
	6	Di	3 24.26	4.96	2 49 5.74	3 51.60	16 16 2.1	16 58.1	66.35	15 53.01
	7	Mi	3 29.22	4.42	2 52 57.34	3 52.14	16 33 0.2	16 41.5	66.44	15 52.79
	8	Do	3 33.64	3.87	2 56 49.48	3 52.69	16 49 41.7	16 24.5	66.52	15 52.58
	9	Fr	−3 37.51	3.31	3 0 42.17	3 53.24	+17 6 6.2	16 7.4	66.60	15 52.36
	10	Sa	3 40.82	2.75	3 4 35.41	3 53.81	17 22 13.6	15 50.0	66.68	15 52.15
	11	St	3 43.57	2.18	3 8 29.22	3 54.37	17 38 3.6	15 32.3	66.76	15 51.94
	12	Mo	3 45.75	1.61	3 12 23.59	3 54.94	17 53 35.9	15 14.2	66.84	15 51.73
	13	Di	3 47.36	1.04	3 16 18.53	3 55.52	18 8 50.1	14 56.0	66.93	15 51.52
	14	Mi	3 48.40	0.46	3 20 14.05	3 56.10	18 23 46.1	14 37.5	67.01	15 51.31
	15	Do	−3 48.86	0.12	3 24 10.15	3 56.68	+18 38 23.6	14 18.8	67.09	15 51.11
	16	Fr	3 48.74	0.70	3 28 6.83	3 57.26	18 52 42.4	13 59.8	67.17	15 50.90
	17	Sa	3 48.04	1.28	3 32 4.09	3 57.84	19 6 42.2	13 40.4	67.25	15 50.70
	18	St	3 46.76	1.85	3 36 1.93	3 58.41	19 20 22.6	13 20.8	67.33	15 50.50
	19	Mo	3 44.91	2.43	3 40 0.34	3 58.98	19 33 43.4	13 1.0	67.41	15 50.31
	20	Di	3 42.48	2.99	3 43 59.32	3 59.55	19 46 44.4	12 40.9	67.49	15 50.11
	21	Mi	−3 39.49	3.56	3 47 58.87	4 0.11	+19 59 25.3	12 20.5	67.57	15 49.93
	22	Do	3 35.93	4.11	3 51 58.98	4 0.67	20 11 45.8	11 59.9	67.64	15 49.74
	23	Fr	3 31.82	4.65	3 55 59.65	4 1.21	20 23 45.7	11 39.0	67.72	15 49.56
	24	Sa	3 27.17	5.19	4 0 0.86	4 1.74	20 35 24.7	11 17.9	67.79	15 49.38
	25	St	3 21.98	5.71	4 4 2.60	4 2.26	20 46 42.6	10 56.4	67.86	15 49.21
	26	Mo	3 16.27	6.21	4 8 4.86	4 2.78	20 57 39.0	10 34.9	67.93	15 49.04
	27	Di	−3 10.06	6.71	4 12 7.64	4 3.27	+21 8 13.9	10 13.1	68.00	15 48.87
	28	Mi	3 3.35	7.18	4 16 10.91	4 3.74	21 18 27.0	9 50.9	68.07	15 48.71
	29	Do	2 56.17	7.64	4 20 14.65	4 4.20	21 28 17.9	9 28.5	68.14	15 48.56
	30	Fr	2 48.53	8.08	4 24 18.85	4 4.63	21 37 46.4	9 5.9	68.21	15 48.41
	31	Sa	2 40.45	8.50	4 28 23.48	4 5.06	21 46 52.3	8 43.2	68.27	15 48.26
Juni	1	St	2 31.95	8.89	4 32 28.54	4 5.45	21 55 35.5	8 20.4	68.33	15 48.12
	2	Mo	−2 23.06	9.27	4 36 33.99	4 5.83	+22 3 55.9	7 57.2	68.39	15 47.99
	3	Di	2 13.79	9.64	4 40 39.82	4 6.20	22 11 53.1	7 33.8	68.44	15 47.86
	4	Mi	2 4.15	9.98	4 44 46.02	4 6.54	22 19 26.9	7 10.4	68.49	15 47.73
	5	Do	1 54.17	10.31	4 48 52.56	4 6.86	22 26 37.3	6 46.9	68.54	15 47.61
	6	Fr	1 43.86	10.62	4 52 59.42	4 7.18	22 33 24.2	6 23.1	68.59	15 47.49
	7	Sa	1 33.24	10.92	4 57 6.60	4 7.48	22 39 47.3	5 59.2	68.64	15 47.38
	8	St	−1 22.32	11.19	5 1 14.08	4 7.75	+22 45 46.5	5 35.3	68.68	15 47.27
	9	Mo	1 11.13	11.45	5 5 21.83	4 8.00	22 51 21.8	5 11.2	68.72	15 47.16
	10	Di	0 59.68	11.69	5 9 29.83	4 8.25	22 56 33.0	4 47.1	68.75	15 47.05
	11	Mi	0 47.99	11.92	5 13 38.08	4 8.48	23 1 20.1	4 22.8	68.78	15 46.95
	12	Do	0 36.07	12.13	5 17 46.56	4 8.69	23 5 42.9	3 58.4	68.81	15 46.85
	13	Fr	−0 23.94		5 21 55.25		+23 9 41.3		68.84	15 46.75

0h Welt-Zeit

Tag	0h Welt-Zeit: Julian. Zeit	Sternzeit	Mittleres Äquinoktium 1930.0: Länge		Breite	log R		Auf-gang in {+50° Breite, 0h Länge}	Unter-gang in {+50° Breite, 0h Länge}
1930	2426	h m s	° ′ ″	′ ″	″			h m	h m
Mai 3	099.5	14 40 40.34	41 50 10.9	58 10.2	+0.43	0.003 5427	1038	4 34	19 20
4	100.5	14 44 36.90	42 48 21.1	58 8.2	+0.47	0.003 6465	1025	4 33	19 22
5	101.5	14 48 33.45	43 46 29.3	58 6.3	+0.48	0.003 7490	1012	4 31	19 23
6	102.5	14 52 30.01	44 44 35.6	58 4.2	+0.44	0.003 8502	1001	4 29	19 25
7	103.5	14 56 26.56	45 42 39.8	58 2.4	+0.39	0.003 9503	991	4 28	19 26
8	104.5	15 0 23.12	46 40 42.2	58 0.4	+0.30	0.004 0494	982	4 26	19 28
9	105.5	15 4 19.68	47 38 42.6	57 58.7	+0.18	0.004 1476	974	4 24	19 29
10	106.5	15 8 16.23	48 36 41.3	57 56.8	+0.04	0.004 2450	966	4 23	19 31
11	107.5	15 12 12.79	49 34 38.1	57 55.1	—0.10	0.004 3416	959	4 21	19 32
12	108.5	15 16 9.35	50 32 33.2	57 53.7	—0.25	0.004 4375	952	4 20	19 34
13	109.5	15 20 5.90	51 30 26.9	57 52.1	—0.39	0.004 5327	944	4 18	19 35
14	110.5	15 24 2.46	52 28 19.0	57 50.7	—0.52	0.004 6271	936	4 17	19 37
15	111.5	15 27 59.02	53 26 9.7	57 49.3	—0.62	0.004 7207	927	4 15	19 38
16	112.5	15 31 55.57	54 23 59.0	57 48.0	—0.70	0.004 8134	917	4 14	19 39
17	113.5	15 35 52.13	55 21 47.0	57 47.0	—0.76	0.004 9051	906	4 12	19 41
18	114.5	15 39 48.69	56 19 34.0	57 45.7	—0.80	0.004 9957	894	4 11	19 42
19	115.5	15 43 45.24	57 17 19.7	57 44.5	—0.81	0.005 0851	881	4 10	19 44
20	116.5	15 47 41.80	58 15 4.2	57 43.5	—0.79	0.005 1732	866	4 9	19 45
21	117.5	15 51 38.36	59 12 47.7	57 42.3	—0.74	0.005 2598	850	4 7	19 46
22	118.5	15 55 34.92	60 10 30.0	57 41.4	—0.68	0.005 3448	834	4 6	19 47
23	119.5	15 59 31.47	61 8 11.4	57 40.4	—0.58	0.005 4282	815	4 5	19 49
24	120.5	16 3 28.03	62 5 51.8	57 39.3	—0.47	0.005 5097	796	4 4	19 50
25	121.5	16 7 24.59	63 3 31.1	57 38.2	—0.35	0.005 5893	776	4 3	19 51
26	122.5	16 11 21.15	64 1 9.3	57 37.2	—0.23	0.005 6669	754	4 2	19 52
27	123.5	16 15 17.70	64 58 46.5	57 36.2	—0.10	0.005 7423	731	4 1	19 54
28	124.5	16 19 14.26	65 56 22.7	57 35.0	+0.02	0.005 8154	707	4 0	19 55
29	125.5	16 23 10.82	66 53 57.7	57 33.8	+0.12	0.005 8861	684	3 59	19 56
30	126.5	16 27 7.38	67 51 31.5	57 32.6	+0.19	0.005 9545	660	3 58	19 57
31	127.5	16 31 3.93	68 49 4.1	57 31.3	+0.24	0.006 0205	638	3 57	19 58
Juni 1	128.5	16 35 0.49	69 46 35.4	57 30.2	+0.25	0.006 0843	617	3 56	19 59
2	129.5	16 38 57.05	70 44 5.6	57 28.8	+0.23	0.006 1460	596	3 56	20 0
3	130.5	16 42 53.61	71 41 34.4	57 27.4	+0.18	0.006 2056	577	3 55	20 1
4	131.5	16 46 50.17	72 39 1.8	57 26.2	+0.10	0.006 2633	559	3 54	20 2
5	132.5	16 50 46.72	73 36 28.0	57 25.1	+0.01	0.006 3192	542	3 54	20 3
6	133.5	16 54 43.28	74 33 53.1	57 23.9	—0.11	0.006 3734	527	3 53	20 4
7	134.5	16 58 39.84	75 31 17.0	57 22.9	—0.25	0.006 4261	512	3 52	20 5
8	135.5	17 2 36.40	76 28 39.9	57 21.7	—0.39	0.006 4773	498	3 52	20 6
9	136.5	17 6 32.96	77 26 1.6	57 20.8	—0.53	0.006 5271	485	3 52	20 6
10	137.5	17 10 29.52	78 23 22.4	57 20.0	—0.66	0.006 5756	472	3 51	20 7
11	138.5	17 14 26.07	79 20 42.4	57 19.3	—0.76	0.006 6228	458	3 51	20 8
12	139.5	17 18 22.63	80 18 1.7	57 18.6	—0.85	0.006 6686	444	3 51	20 9
13	140.5	17 22 19.19	81 15 20.3		—0.92	0.006 7130		3 50	20 9

Tag		Wochentag	0h Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1930			m s	s	h m s	m s	° ' "	' "	s	' "
Juni	13	Fr	−0 23.94	12.32	5 21 55.25	4 8.88	+23 9 41.3	3 34.0	68.84	15 46.75
	14	Sa	−0 11.62	12.50	5 26 4.13	4 9.06	23 13 15.3	3 9.6	68.87	15 46.66
	15	St	+0 0.88	12.64	5 30 13.19	4 9.20	23 16 24.9	2 45.0	68.89	15 46.57
	16	Mo	0 13.52	12.78	5 34 22.39	4 9.33	23 19 9.9	2 20.4	68.90	15 46.48
	17	Di	0 26.30	12.89	5 38 31.72	4 9.44	23 21 30.3	1 55.6	68.92	15 46.40
	18	Mi	0 39.19	12.97	5 42 41.16	4 9.53	23 23 25.9	1 30.9	68.93	15 46.32
	19	Do	+0 52.16	13.04	5 46 50.69	4 9.60	+23 24 56.8	1 6.2	68.94	15 46.24
	20	Fr	1 5.20	13.08	5 51 0.29	4 9.65	23 26 3.0	0 41.4	68.94	15 46.17
	21	Sa	1 18.28	13.10	5 55 9.94	4 9.66	23 26 44.4	0 16.5	68.94	15 46.10
	22	St	1 31.38	13.09	5 59 19.60	4 9.65	23 27 0.9	0 8.3	68.94	15 46.04
	23	Mo	1 44.47	13.06	6 3 29.25	4 9.62	23 26 52.6	0 33.1	68.93	15 45.98
	24	Di	1 57.53	13.01	6 7 38.87	4 9.56	23 26 19.5	0 57.9	68.92	15 45.93
	25	Mi	+2 10.54	12.91	6 11 48.43	4 9.47	+23 25 21.6	1 22.6	68.91	15 45.88
	26	Do	2 23.45	12.80	6 15 57.90	4 9.36	23 23 59.0	1 47.4	68.90	15 45.84
	27	Fr	2 36.25	12.66	6 20 7.26	4 9.22	23 22 11.6	2 12.2	68.88	15 45.81
	28	Sa	2 48.91	12.48	6 24 16.48	4 9.04	23 19 59.4	2 36.8	68.86	15 45.78
	29	St	3 1.39	12.27	6 28 25.52	4 8.83	23 17 22.6	3 1.3	68.83	15 45.75
	30	Mo	3 13.66	12.05	6 32 34.35	4 8.61	23 14 21.3	3 25.8	68.81	15 45.73
Juli	1	Di	+3 25.71	11.80	6 36 42.96	4 8.35	+23 10 55.5	3 50.2	68.78	15 45.72
	2	Mi	3 37.51	11.52	6 40 51.31	4 8.08	23 7 5.3	4 14.5	68.74	15 45.72
	3	Do	3 49.03	11.22	6 44 59.39	4 7.78	23 2 50.8	4 38.6	68.70	15 45.71
	4	Fr	4 0.25	10.91	6 49 7.17	4 7.47	22 58 12.2	5 2.6	68.66	15 45.72
	5	Sa	4 11.16	10.57	6 53 14.64	4 7.13	22 53 9.6	5 26.5	68.62	15 45.72
	6	St	4 21.73	10.21	6 57 21.77	4 6.77	22 47 43.1	5 50.2	68.58	15 45.73
	7	Mo	+4 31.94	9.85	7 1 28.54	4 6.40	+22 41 52.9	6 13.8	68.53	15 45.75
	8	Di	4 41.79	9.46	7 5 34.94	4 6.02	22 35 39.1	6 37.3	68.47	15 45.76
	9	Mi	4 51.25	9.06	7 9 40.96	4 5.62	22 29 1.8	7 0.5	68.42	15 45.78
	10	Do	5 0.31	8.64	7 13 46.58	4 5.20	22 22 1.3	7 23.6	68.36	15 45.81
	11	Fr	5 8.95	8.22	7 17 51.78	4 4.78	22 14 37.7	7 46.5	68.30	15 45.84
	12	Sa	5 17.17	7.78	7 21 56.56	4 4.34	22 6 51.2	8 9.3	68.24	15 45.87
	13	St	+5 24.95	7.34	7 26 0.90	4 3.89	+21 58 41.9	8 32.0	68.18	15 45.90
	14	Mo	5 32.29	6.87	7 30 4.79	4 3.42	21 50 9.9	8 54.3	68.12	15 45.94
	15	Di	5 39.16	6.39	7 34 8.21	4 2.95	21 41 15.6	9 16.5	68.06	15 45.98
	16	Mi	5 45.55	5.91	7 38 11.16	4 2.47	21 31 59.1	9 38.5	67.99	15 46.02
	17	Do	5 51.46	5.41	7 42 13.63	4 1.97	21 22 20.6	10 0.4	67.91	15 46.07
	18	Fr	5 56.87	4.91	7 46 15.60	4 1.47	21 12 20.2	10 22.0	67.84	15 46.12
	19	Sa	+6 1.78	4.39	7 50 17.07	4 0.94	+21 1 58.2	10 43.4	67.77	15 46.18
	20	St	6 6.17	3.86	7 54 18.01	4 0.42	20 51 14.8	11 4.5	67.69	15 46.24
	21	Mo	6 10.03	3.32	7 58 18.43	3 59.89	20 40 10.3	11 25.5	67.61	15 46.30
	22	Di	6 13.35	2.78	8 2 18.32	3 59.34	20 28 44.8	11 46.2	67.53	15 46.37
	23	Mi	6 16.13	2.22	8 6 17.66	3 58.77	20 16 58.6	12 6.7	67.45	15 46.45
	24	Do	+6 18.35		8 10 16.43		+20 4 51.9		67.37	15 46.53

Tag	0h Welt-Zeit: Julian. Zeit	Sternzeit	Mittleres Äquinoktium 1930.0: Länge		Breite	log R		Aufgang in +50° Breite, 0h Länge	Untergang in +50° Breite, 0h Länge
1930	2426	h m s	° ′ ″	′ ″	″			h m	h m
Juni 13	140.5	17 22 19.19	81 15 20.3	57 18.0	−0.92	0.006 7130	430	3 50	20 9
14	141.5	17 26 15.75	82 12 38.3	57 17.5	−0.95	0.006 7560	416	3 50	20 10
15	142.5	17 30 12.31	83 9 55.8	57 17.1	−0.96	0.006 7976	400	3 50	20 10
16	143.5	17 34 8.87	84 7 12.9	57 16.7	−0.94	0.006 8376	384	3 50	20 11
17	144.5	17 38 5.43	85 4 29.6	57 16.3	−0.90	0.006 8760	367	3 50	20 11
18	145.5	17 42 1.98	86 1 45.9	57 16.0	−0.83	0.006 9127	348	3 50	20 12
19	146.5	17 45 58.54	86 59 1.9	57 15.9	−0.74	0.006 9475	329	3 50	20 12
20	147.5	17 49 55.10	87 56 17.8	57 15.6	−0.63	0.006 9804	309	3 50	20 12
21	148.5	17 53 51.66	88 53 33.4	57 15.4	−0.51	0.007 0113	287	3 50	20 13
22	149.5	17 57 48.22	89 50 48.8	57 15.4	−0.39	0.007 0400	264	3 50	20 13
23	150.5	18 1 44.78	90 48 4.2	57 15.2	−0.26	0.007 0664	240	3 51	20 13
24	151.5	18 5 41.34	91 45 19.4	57 15.0	−0.14	0.007 0904	215	3 51	20 13
25	152.5	18 9 37.89	92 42 34.4	57 14.9	−0.04	0.007 1119	188	3 51	20 13
26	153.5	18 13 34.45	93 39 49.3	57 14.7	+0.05	0.007 1307	161	3 52	20 13
27	154.5	18 17 31.01	94 37 4.0	57 14.3	+0.10	0.007 1468	135	3 52	20 13
28	155.5	18 21 27.57	95 34 18.3	57 14.0	+0.11	0.007 1603	108	3 52	20 13
29	156.5	18 25 24.13	96 31 32.3	57 13.6	+0.11	0.007 1711	82	3 53	20 13
30	157.5	18 29 20.69	97 28 45.9	57 13.3	+0.08	0.007 1793	57	3 54	20 13
Juli 1	158.5	18 33 17.24	98 25 59.2	57 12.9	+0.01	0.007 1850	33	3 54	20 13
2	159.5	18 37 13.80	99 23 12.1	57 12.5	−0.08	0.007 1883	11	3 55	20 12
3	160.5	18 41 10.36	100 20 24.6	57 12.1	−0.19	0.007 1894	−9	3 55	20 12
4	161.5	18 45 6.92	101 17 36.7	57 12.0	−0.32	0.007 1885	28	3 56	20 12
5	162.5	18 49 3.48	102 14 48.7	57 11.6	−0.46	0.007 1857	46	3 57	20 12
6	163.5	18 53 0.04	103 12 0.3	57 11.3	−0.59	0.007 1811	63	3 58	20 11
7	164.5	18 56 56.59	104 9 11.6	57 11.3	−0.71	0.007 1748	80	3 58	20 10
8	165.5	19 0 53.15	105 6 22.9	57 11.3	−0.81	0.007 1668	96	3 59	20 10
9	166.5	19 4 49.71	106 3 34.2	57 11.4	−0.89	0.007 1572	110	4 0	20 9
10	167.5	19 8 46.27	107 0 45.6	57 11.4	−0.96	0.007 1462	125	4 1	20 8
11	168.5	19 12 42.83	107 57 57.0	57 11.7	−1.00	0.007 1337	140	4 2	20 8
12	169.5	19 16 39.39	108 55 8.7	57 12.0	−1.01	0.007 1197	155	4 3	20 7
13	170.5	19 20 35.94	109 52 20.7	57 12.4	−0.98	0.007 1042	171	4 4	20 6
14	171.5	19 24 32.50	110 49 33.1	57 12.8	−0.94	0.007 0871	186	4 5	20 5
15	172.5	19 28 29.06	111 46 45.9	57 13.3	−0.88	0.007 0685	203	4 6	20 5
16	173.5	19 32 25.62	112 43 59.2	57 14.0	−0.79	0.007 0482	220	4 7	20 4
17	174.5	19 36 22.18	113 41 13.2	57 14.5	−0.69	0.007 0262	238	4 8	20 3
18	175.5	19 40 18.73	114 38 27.7	57 15.3	−0.57	0.007 0024	257	4 10	20 2
19	176.5	19 44 15.29	115 35 43.0	57 16.0	−0.45	0.006 9767	276	4 11	20 1
20	177.5	19 48 11.85	116 32 59.0	57 16.9	−0.33	0.006 9491	297	4 12	20 0
21	178.5	19 52 8.41	117 30 15.9	57 17.5	−0.21	0.006 9194	319	4 13	19 58
22	179.5	19 56 4.96	118 27 33.4	57 18.4	−0.10	0.006 8875	343	4 14	19 57
23	180.5	20 0 1.52	119 24 51.8	57 19.3	0.00	0.006 8532	368	4 16	19 56
24	181.5	20 3 58.08	120 22 11.1		+0.06	0.006 8164		4 17	19 55

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit (m s)	Diff. (s)	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	Halbe Durchgangs-Dauer St.-Zt. (s)	Halbmesser (′ ″)
1930									
Juli 24	Do	+6 18.35	1.65	8 10 16.43	3 58.20	+20 4 51.9	12 26.9	67.37	15 46.53
25	Fr	6 20.00	1.07	8 14 14.63	3 57.63	19 52 25.0	12 46.8	67.29	15 46.61
26	Sa	6 21.07	0.47	8 18 12.26	3 57.03	19 39 38.2	13 6.4	67.21	15 46.70
27	St	6 21.54	0.13	8 22 9.29	3 56.43	19 26 31.8	13 25.8	67.12	15 46.80
28	Mo	6 21.41	0.74	8 26 5.72	3 55.81	19 13 6.0	13 44.9	67.04	15 46.90
29	Di	6 20.67	1.36	8 30 1.53	3 55.20	18 59 21.1	14 3.7	66.95	15 47.01
30	Mi	+6 19.31	1.98	8 33 56.73	3 54.58	+18 45 17.4	14 22.1	66.86	15 47.12
31	Do	6 17.33	2.61	8 37 51.31	3 53.94	18 30 55.3	14 40.3	66.78	15 47.24
Aug. 1	Fr	6 14.72	3.24	8 41 45.25	3 53.32	18 16 15.0	14 58.1	66.69	15 47.37
2	Sa	6 11.48	3.86	8 45 38.57	3 52.70	18 1 16.9	15 15.7	66.60	15 47.49
3	St	6 7.62	4.48	8 49 31.27	3 52.08	17 46 1.2	15 33.0	66.52	15 47.62
4	Mo	6 3.14	5.10	8 53 23.35	3 51.45	17 30 28.2	15 50.0	66.43	15 47.76
5	Di	+5 58.04	5.72	8 57 14.80	3 50.83	+17 14 38.2	16 6.7	66.34	15 47.89
6	Mi	5 52.32	6.33	9 1 5.63	3 50.23	16 58 31.5	16 23.0	66.26	15 48.03
7	Do	5 45.99	6.93	9 4 55.86	3 49.63	16 42 8.5	16 39.2	66.17	15 48.18
8	Fr	5 39.06	7.52	9 8 45.49	3 49.04	16 25 29.3	16 55.0	66.08	15 48.33
9	Sa	5 31.54	8.10	9 12 34.53	3 48.45	16 8 34.3	17 10.6	66.00	15 48.48
10	St	5 23.44	8.68	9 16 22.98	3 47.87	15 51 23.7	17 25.8	65.91	15 48.63
11	Mo	+5 14.76	9.25	9 20 10.85	3 47.31	+15 33 57.9	17 40.8	65.83	15 48.78
12	Di	5 5.51	9.81	9 23 58.16	3 46.75	15 16 17.1	17 55.4	65.75	15 48.94
13	Mi	4 55.70	10.35	9 27 44.91	3 46.20	14 58 21.7	18 9.8	65.67	15 49.10
14	Do	4 45.35	10.89	9 31 31.11	3 45.67	14 40 11.9	18 23.9	65.59	15 49.26
15	Fr	4 34.46	11.41	9 35 16.78	3 45.14	14 21 48.0	18 37.6	65.51	15 49.42
16	Sa	4 23.05	11.93	9 39 1.92	3 44.63	14 3 10.4	18 51.2	65.43	15 49.59
17	St	+4 11.12	12.43	9 42 46.55	3 44.13	+13 44 19.2	19 4.4	65.35	15 49.76
18	Mo	3 58.69	12.91	9 46 30.68	3 43.64	13 25 14.8	19 17.4	65.28	15 49.94
19	Di	3 45.78	13.40	9 50 14.32	3 43.15	13 5 57.4	19 29.9	65.20	15 50.12
20	Mi	3 32.38	13.88	9 53 57.47	3 42.68	12 46 27.5	19 42.1	65.13	15 50.30
21	Do	3 18.50	14.33	9 57 40.15	3 42.23	12 26 45.4	19 54.1	65.06	15 50.48
22	Fr	3 4.17	14.79	10 1 22.38	3 41.77	12 6 51.3	20 5.7	64.99	15 50.67
23	Sa	+2 49.38	15.23	10 5 4.15	3 41.32	+11 46 45.6	20 17.0	64.92	15 50.87
24	St	2 34.15	15.67	10 8 45.47	3 40.89	11 26 28.6	20 27.9	64.86	15 51.07
25	Mo	2 18.48	16.09	10 12 26.36	3 40.46	11 6 0.7	20 38.5	64.79	15 51.27
26	Di	2 2.39	16.52	10 16 6.82	3 40.04	10 45 22.2	20 48.7	64.73	15 51.48
27	Mi	1 45.87	16.92	10 19 46.86	3 39.63	10 24 33.5	20 58.6	64.67	15 51.69
28	Do	1 28.95	17.31	10 23 26.49	3 39.24	10 3 34.9	21 8.0	64.61	15 51.91
29	Fr	+1 11.64	17.69	10 27 5.73	3 38.86	+ 9 42 26.9	21 17.2	64.56	15 52.13
30	Sa	0 53.95	18.06	10 30 44.59	3 38.49	9 21 9.7	21 26.0	64.50	15 52.35
31	St	0 35.89	18.41	10 34 23.08	3 38.15	8 59 43.7	21 34.6	64.45	15 52.58
Sept. 1	Mo	+0 17.48	18.74	10 38 1.23	3 37.82	8 38 9.1	21 42.8	64.40	15 52.81
2	Di	—0 1.26	19.04	10 41 39.05	3 37.51	8 16 26.3	21 50.6	64.36	15 53.04
3	Mi	—0 20.30		10 45 16.56		+ 7 54 35.7		64.32	15 53.28

Tag	Julian. Zeit	Sternzeit	Länge (Mittleres Äquinoktium 1930.0)		Breite	log R		Aufgang (in +50° Breite, 0h Länge)	Untergang (in +50° Breite, 0h Länge)
1930	2426	h m s	° ′ ″	′ ″	″			h m	h m
Juli 24	181.5	20 3 58.08	120 22 11.1	57 19.9	+0.06	0.006 8164	393	4 17	19 55
25	182.5	20 7 54.64	121 19 31.0	57 20.6	+0.09	0.006 7771	418	4 18	19 54
26	183.5	20 11 51.19	122 16 51.6	57 21.3	+0.09	0.006 7353	445	4 20	19 52
27	184.5	20 15 47.75	123 14 12.9	57 22.1	+0.06	0.006 6908	471	4 21	19 51
28	185.5	20 19 44.31	124 11 35.0	57 22.5	—0.01	0.006 6437	495	4 22	19 50
29	186.5	20 23 40.86	125 8 57.5	57 23.2	—0.09	0.006 5942	519	4 24	19 48
30	187.5	20 27 37.42	126 6 20.7	57 23.6	—0.20	0.006 5423	542	4 25	19 47
31	188.5	20 31 33.98	127 3 44.3	57 24.1	—0.32	0.006 4881	563	4 26	19 45
Aug. 1	189.5	20 35 30.54	128 1 8.4	57 24.8	—0.45	0.006 4318	581	4 28	19 44
2	190.5	20 39 27.09	128 58 33.2	57 25.3	—0.57	0.006 3737	598	4 29	19 42
3	191.5	20 43 23.65	129 55 58.5	57 26.0	—0.69	0.006 3139	615	4 31	19 41
4	192.5	20 47 20.21	130 53 24.5	57 26.6	—0.80	0.006 2524	631	4 32	19 39
5	193.5	20 51 16.76	131 50 51.1	57 27.6	—0.89	0.006 1893	645	4 33	19 38
6	194.5	20 55 13.32	132 48 18.7	57 28.3	—0.95	0.006 1248	658	4 35	19 36
7	195.5	20 59 9.87	133 45 47.0	57 29.3	—0.98	0.006 0590	670	4 36	19 34
8	196.5	21 3 6.43	134 43 16.3	57 30.2	—0.99	0.005 9920	683	4 38	19 32
9	197.5	21 7 2.99	135 40 46.5	57 31.3	—0.97	0.005 9237	695	4 39	19 31
10	198.5	21 10 59.54	136 38 17.8	57 32.4	—0.92	0.005 8542	707	4 41	19 29
11	199.5	21 14 56.10	137 35 50.2	57 33.7	—0.86	0.005 7835	718	4 42	19 27
12	200.5	21 18 52.65	138 33 23.9	57 34.9	—0.78	0.005 7117	730	4 44	19 25
13	201.5	21 22 49.21	139 30 58.8	57 36.4	—0.67	0.005 6387	743	4 45	19 24
14	202.5	21 26 45.77	140 28 35.2	57 37.7	—0.55	0.005 5644	755	4 46	19 22
15	203.5	21 30 42.32	141 26 12.9	57 39.2	—0.43	0.005 4889	768	4 48	19 20
16	204.5	21 34 38.88	142 23 52.1	57 40.8	—0.30	0.005 4121	782	4 50	19 18
17	205.5	21 38 35.43	143 21 32.9	57 42.3	—0.17	0.005 3339	798	4 51	19 16
18	206.5	21 42 31.99	144 19 15.2	57 44.1	—0.06	0.005 2541	814	4 52	19 14
19	207.5	21 46 28.54	145 16 59.3	57 45.6	+0.04	0.005 1727	831	4 54	19 12
20	208.5	21 50 25.10	146 14 44.9	57 47.3	+0.10	0.005 0896	849	4 56	19 10
21	209.5	21 54 21.65	147 12 32.2	57 48.9	+0.14	0.005 0047	868	4 57	19 8
22	210.5	21 58 18.21	148 10 21.1	57 50.4	+0.16	0.004 9179	889	4 58	19 6
23	211.5	22 2 14.76	149 8 11.5	57 52.1	+0.13	0.004 8290	909	5 0	19 4
24	212.5	22 6 11.32	150 6 3.6	57 53.6	+0.08	0.004 7381	931	5 1	19 2
25	213.5	22 10 7.87	151 3 57.2	57 55.0	—0.01	0.004 6450	951	5 3	19 0
26	214.5	22 14 4.43	152 1 52.2	57 56.3	—0.13	0.004 5499	971	5 4	18 58
27	215.5	22 18 0.98	152 59 48.5	57 57.7	—0.24	0.004 4528	989	5 6	18 56
28	216.5	22 21 57.54	153 57 46.2	57 59.0	—0.36	0.004 3539	1006	5 7	18 54
29	217.5	22 25 54.09	154 55 45.2	58 0.3	—0.49	0.004 2533	1021	5 9	18 52
30	218.5	22 29 50.65	155 53 45.5	58 1.5	—0.62	0.004 1512	1035	5 10	18 50
31	219.5	22 33 47.20	156 51 47.0	58 3.0	—0.72	0.004 0477	1047	5 12	18 48
Sept. 1	220.5	22 37 43.76	157 49 50.0	58 4.3	—0.81	0.003 9430	1058	5 13	18 46
2	221.5	22 41 40.31	158 47 54.3	58 5.8	—0.87	0.003 8372	1067	5 15	18 44
3	222.5	22 45 36.86	159 46 0.1		—0.92	0.003 7305		5 16	18 42

Table header: 0h Welt-Zeit

Tag		Wochentag	0h Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1930			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept.	3	Mi	− 0 20.30	19.34	10 45 16.56	3 37.21	+7 54 35.7	21 58.1	64.32	15 53.28
	4	Do	0 39.64	19.62	10 48 53.77	3 36.93	7 32 37.6	22 5.4	64.28	15 53.51
	5	Fr	0 59.26	19.87	10 52 30.70	3 36.69	7 10 32.2	22 12.3	64.24	15 53.75
	6	Sa	1 19.13	20.10	10 56 7.39	3 36.46	6 48 19.9	22 19.0	64.20	15 53.99
	7	St	1 39.23	20.31	10 59 43.85	3 36.24	6 26 0.9	22 25.3	64.17	15 54.23
	8	Mo	1 59.54	20.50	11 3 20.09	3 36.05	6 3 35.6	22 31.3	64.14	15 54.47
	9	Di	− 2 20.04	20.67	11 6 56.14	3 35.88	+5 41 4.3	22 37.0	64.12	15 54.71
	10	Mi	2 40.71	20.82	11 10 32.02	3 35.74	5 18 27.3	22 42.4	64.09	15 54.96
	11	Do	3 1.53	20.95	11 14 7.76	3 35.61	4 55 44.9	22 47.5	64.07	15 55.20
	12	Fr	3 22.48	21.05	11 17 43.37	3 35.51	4 32 57.4	22 52.3	64.05	15 55.45
	13	Sa	3 43.53	21.12	11 21 18.88	3 35.42	4 10 5.1	22 56.9	64.04	15 55.69
	14	St	4 4.65	21.19	11 24 54.30	3 35.36	3 47 8.2	23 1.0	64.03	15 55.94
	15	Mo	− 4 25.84	21.23	11 28 29.66	3 35.33	+3 24 7.2	23 4.9	64.02	15 56.19
	16	Di	4 47.07	21.24	11 32 4.99	3 35.31	3 1 2.3	23 8.4	64.01	15 56.44
	17	Mi	5 8.31	21.25	11 35 40.30	3 35.31	2 37 53.9	23 11.7	64.01	15 56.69
	18	Do	5 29.56	21.23	11 39 15.61	3 35.33	2 14 42.2	23 14.5	64.01	15 56.95
	19	Fr	5 50.79	21.19	11 42 50.94	3 35.36	1 51 27.7	23 17.0	64.01	15 57.21
	20	Sa	6 11.98	21.13	11 46 26.30	3 35.42	1 28 10.7	23 19.2	64.01	15 57.46
	21	St	− 6 33.11	21.06	11 50 1.72	3 35.49	+1 4 51.5	23 21.1	64.02	15 57.73
	22	Mo	6 54.17	20.97	11 53 37.21	3 35.58	0 41 30.4	23 22.5	64.03	15 57.99
	23	Di	7 15.14	20.87	11 57 12.79	3 35.68	+0 18 7.9	23 23.6	64.05	15 58.26
	24	Mi	7 36.01	20.76	12 0 48.47	3 35.80	−0 5 15.7	23 24.1	64.07	15 58.53
	25	Do	7 56.77	20.62	12 4 24.27	3 35.93	0 28 39.8	23 24.4	64.09	15 58.80
	26	Fr	8 17.39	20.47	12 8 0.20	3 36.09	0 52 4.2	23 24.4	64.11	15 59.07
	27	Sa	− 8 37.86	20.30	12 11 36.29	3 36.26	−1 15 28.6	23 24.0	64.14	15 59.35
	28	St	8 58.16	20.10	12 15 12.55	3 36.45	1 38 52.6	23 23.1	64.17	15 59.63
	29	Mo	9 18.26	19.89	12 18 49.00	3 36.66	2 2 15.7	23 22.0	64.20	15 59.91
	30	Di	9 38.15	19.66	12 22 25.66	3 36.90	2 25 37.7	23 20.5	64.23	16 0.19
Okt.	1	Mi	9 57.81	19.40	12 26 2.56	3 37.15	2 48 58.2	23 18.7	64.27	16 0.47
	2	Do	10 17.21	19.13	12 29 39.71	3 37.43	3 12 16.9	23 16.4	64.32	16 0.75
	3	Fr	−10 36.34	18.83	12 33 17.14	3 37.72	−3 35 33.3	23 13.9	64.36	16 1.03
	4	Sa	10 55.17	18.51	12 36 54.86	3 38.04	3 58 47.2	23 11.1	64.41	16 1.31
	5	St	11 13.68	18.17	12 40 32.90	3 38.38	4 21 58.3	23 7.8	64.46	16 1.59
	6	Mo	11 31.85	17.81	12 44 11.28	3 38.75	4 45 6.1	23 4.3	64.51	16 1.87
	7	Di	11 49.66	17.41	12 47 50.03	3 39.14	5 8 10.4	23 0.4	64.57	16 2.14
	8	Mi	12 7.07	17.00	12 51 29.17	3 39.55	5 31 10.8	22 56.1	64.63	16 2.42
	9	Do	−12 24.07	16.58	12 55 8.72	3 39.98	−5 54 6.9	22 51.6	64.69	16 2.70
	10	Fr	12 40.65	16.12	12 58 48.70	3 40.44	6 16 58.5	22 46.7	64.75	16 2.97
	11	Sa	12 56.77	15.64	13 2 29.14	3 40.91	6 39 45.2	22 41.4	64.81	16 3.24
	12	St	13 12.41	15.14	13 6 10.05	3 41.41	7 2 26.6	22 35.8	64.88	16 3.52
	13	Mo	13 27.55	14.62	13 9 51.46	3 41.93	7 25 2.4	22 29.8	64.96	16 3.79
	14	Di	−13 42.17		13 13 33.39		−7 47 32.2		65.03	16 4.05

Tag	0ʰ Welt-Zeit: Julian. Zeit	Sternzeit	Mittleres Äquinoktium 1930.0: Länge		Breite	log R		Auf-gang	Unter-gang
								in {+50° Breite, 0ʰ Länge}	
1930	2426	h m s	° ′ ″	′ ″	″			h m	h m
Sept. 3	222.5	22 45 36.86	159 46 0.1	58 7.2	—0.92	0.003 7305	1076	5 16	18 42
4	223.5	22 49 33.42	160 44 7.3	58 8.7	—0.92	0.003 6229	1083	5 18	18 40
5	224.5	22 53 29.97	161 42 16.0	58 10.2	—0.90	0.003 5146	1089	5 19	18 37
6	225.5	22 57 26.53	162 40 26.2	58 12.0	—0.85	0.003 4057	1094	5 21	18 35
7	226.5	23 1 23.08	163 38 38.2	58 13.7	—0.78	0.003 2963	1099	5 22	18 33
8	227.5	23 5 19.63	164 36 51.9	58 15.4	—0.68	0.003 1864	1104	5 24	18 31
9	228.5	23 9 16.19	165 35 7.3	58 17.2	—0.57	0.003 0760	1109	5 25	18 29
10	229.5	23 13 12.74	166 33 24.5	58 19.2	—0.45	0.002 9651	1112	5 27	18 26
11	230.5	23 17 9.30	167 31 43.7	58 21.1	—0.33	0.002 8539	1116	5 28	18 24
12	231.5	23 21 5.85	168 30 4.8	58 23.1	—0.19	0.002 7423	1121	5 30	18 22
13	232.5	23 25 2.40	169 28 27.9	58 25.2	—0.06	0.002 6302	1126	5 31	18 20
14	233.5	23 28 58.96	170 26 53.1	58 27.3	+0.07	0.002 5176	1132	5 33	18 18
15	234.5	23 32 55.51	171 25 20.4	58 29.5	+0.17	0.002 4044	1138	5 34	18 16
16	235.5	23 36 52.06	172 23 49.9	58 31.7	+0.25	0.002 2906	1146	5 36	18 13
17	236.5	23 40 48.62	173 22 21.6	58 34.0	+0.31	0.002 1760	1154	5 37	18 11
18	237.5	23 44 45.17	174 20 55.6	58 36.1	+0.32	0.002 0606	1164	5 39	18 9
19	238.5	23 48 41.73	175 19 31.7	58 38.2	+0.31	0.001 9442	1174	5 40	18 7
20	239.5	23 52 38.28	176 18 9.9	58 40.4	+0.26	0.001 8268	1186	5 42	18 4
21	240.5	23 56 34.83	177 16 50.3	58 42.6	+0.19	0.001 7082	1199	5 43	18 2
22	241.5	0 0 31.39	178 15 32.9	58 44.5	+0.09	0.001 5883	1211	5 45	18 0
23	242.5	0 4 27.94	179 14 17.4	58 46.3	—0.04	0.001 4672	1222	5 46	17 58
24	243.5	0 8 24.49	180 13 3.7	58 48.2	—0.17	0.001 3450	1233	5 48	17 56
25	244.5	0 12 21.05	181 11 51.9	58 50.1	—0.31	0.001 2217	1242	5 49	17 54
26	245.5	0 16 17.60	182 10 42.0	58 51.9	—0.43	0.001 0975	1251	5 51	17 51
27	246.5	0 20 14.16	183 9 33.9	58 53.7	—0.53	0.000 9724	1258	5 52	17 49
28	247.5	0 24 10.71	184 8 27.6	58 55.3	—0.63	0.000 8466	1263	5 54	17 47
29	248.5	0 28 7.26	185 7 22.9	58 57.1	—0.70	0.000 7203	1265	5 55	17 45
30	249.5	0 32 3.82	186 6 20.0	58 58.8	—0.75	0.000 5938	1268	5 57	17 42
Okt. 1	250.5	0 36 0.37	187 5 18.8	59 0.6	—0.77	0.000 4670	1269	5 58	17 40
2	251.5	0 39 56.92	188 4 19.4	59 2.4	—0.75	0.000 3401	1268	6 0	17 38
3	252.5	0 43 53.48	189 3 21.8	59 4.2	—0.71	0.000 2133	1266	6 2	17 36
4	253.5	0 47 50.03	190 2 26.0	59 6.0	—0.63	0.000 0867	1263	6 3	17 34
5	254.5	0 51 46.58	191 1 32.0	59 8.0	—0.55	9.999 9604	1260	6 5	17 32
6	255.5	0 55 43.14	192 0 40.0	59 9.9	—0.44	9.999 8344	1255	6 6	17 30
7	256.5	0 59 39.69	192 59 49.9	59 11.9	—0.31	9.999 7089	1249	6 8	17 27
8	257.5	1 3 36.25	193 59 1.8	59 14.0	—0.17	9.999 5840	1242	6 9	17 25
9	258.5	1 7 32.80	194 58 15.8	59 16.2	—0.02	9.999 4598	1236	6 11	17 23
10	259.5	1 11 29.35	195 57 32.0	59 18.2	+0.12	9.999 3362	1230	6 12	17 21
11	260.5	1 15 25.91	196 56 50.2	59 20.4	+0.24	9.999 2132	1224	6 14	17 19
12	261.5	1 19 22.46	197 56 10.6	59 22.7	+0.36	9.999 0908	1218	6 16	17 17
13	262.5	1 23 19.02	198 55 33.3	59 25.1	+0.46	9.998 9690	1213	6 17	17 15
14	263.5	1 27 15.57	199 54 58.4		+0.51	9.998 8477		6 19	17 13

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit	Diff.	0h Welt-Zeit: Scheinbare Rektaszension	Diff.	0h Welt-Zeit: Scheinbare Deklination	Diff.	Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1930		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Okt. 14	Di	−13 42.17	14.08	13 13 33.39	3 42.48	− 7 47 32.2	22 23.5	65.03	16 4.05
15	Mi	13 56.25	13.52	13 17 15.87	3 43.04	8 9 55.7	22 16.8	65.11	16 4.32
16	Do	14 9.77	12.94	13 20 58.91	3 43.61	8 32 12.5	22 9.7	65.19	16 4.59
17	Fr	14 22.71	12.35	13 24 42.52	3 44.21	8 54 22.2	22 2.3	65.28	16 4.86
18	Sa	14 35.06	11.73	13 28 26.73	3 44.82	9 16 24.5	21 54.4	65.36	16 5.12
19	St	14 46.79	11.10	13 32 11.55	3 45.45	9 38 18.9	21 46.0	65.45	16 5.39
20	Mo	−14 57.89	10.47	13 35 57.00	3 46.09	−10 0 4.9	21 37.4	65.54	16 5.66
21	Di	15 8.36	9.83	13 39 43.09	3 46.73	10 21 42.3	21 28.2	65.64	16 5.93
22	Mi	15 18.19	9.16	13 43 29.82	3 47.39	10 43 10.5	21 18.6	65.73	16 6.19
23	Do	15 27.35	8.49	13 47 17.21	3 48.06	11 4 29.1	21 8.6	65.83	16 6.46
24	Fr	15 35.84	7.81	13 51 5.27	3 48.75	11 25 37.7	20 58.2	65.93	16 6.73
25	Sa	15 43.65	7.11	13 54 54.02	3 49.45	11 46 35.9	20 47.4	66.03	16 7.00
26	St	−15 50.76	6.40	13 58 43.47	3 50.14	−12 7 23.3	20 36.2	66.13	16 7.27
27	Mo	15 57.16	5.69	14 2 33.61	3 50.86	12 27 59.5	20 24.4	66.24	16 7.53
28	Di	16 2.85	4.97	14 6 24.47	3 51.59	12 48 23.9	20 12.3	66.34	16 7.80
29	Mi	16 7.82	4.22	14 10 16.06	3 52.34	13 8 36.2	20 0.0	66.45	16 8.06
30	Do	16 12.04	3.47	14 14 8.40	3 53.09	13 28 36.2	19 47.1	66.56	16 8.33
31	Fr	16 15.51	2.71	14 18 1.49	3 53.85	13 48 23.3	19 33.7	66.67	16 8.59
Nov. 1	Sa	−16 18.22	1.93	14 21 55.34	3 54.62	−14 7 57.0	19 20.2	66.79	16 8.85
2	St	16 20.15	1.15	14 25 49.96	3 55.41	14 27 17.2	19 6.1	66.90	16 9.10
3	Mo	16 21.30	0.35	14 29 45.37	3 56.21	14 46 23.3	18 51.6	67.01	16 9.36
4	Di	16 21.65	0.46	14 33 41.58	3 57.01	15 5 14.9	18 36.8	67.13	16 9.61
5	Mi	16 21.19	1.28	14 37 38.59	3 57.83	15 23 51.7	18 21.6	67.25	16 9.85
6	Do	16 19.91	2.10	14 41 36.42	3 58.66	15 42 13.3	18 6.0	67.36	16 10.10
7	Fr	−16 17.81	2.94	14 45 35.08	3 59.49	−16 0 19.3	17 50.1	67.48	16 10.34
8	Sa	16 14.87	3.78	14 49 34.57	4 0.34	16 18 9.4	17 33.7	67.60	16 10.57
9	St	16 11.09	4.63	14 53 34.91	4 1.19	16 35 43.1	17 16.9	67.72	16 10.80
10	Mo	16 6.46	5.49	14 57 36.10	4 2.06	16 53 0.0	16 59.8	67.84	16 11.03
11	Di	16 0.97	6.37	15 1 38.16	4 2.92	17 9 59.8	16 42.3	67.96	16 11.26
12	Mi	15 54.60	7.23	15 5 41.08	4 3.78	17 26 42.1	16 24.5	68.08	16 11.48
13	Do	−15 47.37	8.09	15 9 44.86	4 4.65	−17 43 6.6	16 6.2	68.20	16 11.69
14	Fr	15 39.28	8.97	15 13 49.51	4 5.53	17 59 12.8	15 47.4	68.32	16 11.91
15	Sa	15 30.31	9.85	15 17 55.04	4 6.39	18 15 0.2	15 28.2	68.44	16 12.12
16	St	15 20.46	10.70	15 22 1.43	4 7.26	18 30 28.4	15 8.8	68.56	16 12.33
17	Mo	15 9.76	11.55	15 26 8.69	4 8.11	18 45 37.2	14 48.9	68.67	16 12.53
18	Di	14 58.21	12.39	15 30 16.80	4 8.96	19 0 26.1	14 28.5	68.79	16 12.74
19	Mi	−14 45.82	13.23	15 34 25.76	4 9.79	−19 14 54.6	14 7.8	68.90	16 12.94
20	Do	14 32.59	14.06	15 38 35.55	4 10.61	19 29 2.4	13 46.7	69.02	16 13.14
21	Fr	14 18.53	14.87	15 42 46.16	4 11.43	19 42 49.1	13 25.1	69.13	16 13.34
22	Sa	14 3.66	15.67	15 46 57.59	4 12.22	19 56 14.2	13 3.2	69.24	16 13.53
23	St	13 47.99	16.45	15 51 9.81	4 13.01	20 9 17.4	12 41.0	69.35	16 13.73
24	Mo	−13 31.54		15 55 22.82		−20 21 58.4		69.46	16 13.92

Tag	Julian. Zeit	Sternzeit	0h Welt-Zeit, Mittleres Äquinoktium 1930.0: Länge	Diff.	Breite	log R	Diff.	Aufgang in +50° Breite, 0h Länge	Untergang in +50° Breite, 0h Länge
1930	2426	h m s	° ′ ″	′ ″	″			h m	h m
Okt. 14	263.5	1 27 15.57	199 54 58.4	59 27.4	+0.51	9.998 8477	1208	6 19	17 13
15	264.5	1 31 12.12	200 54 25.8	59 29.7	+0.55	9.998 7269	1205	6 20	17 11
16	265.5	1 35 8.68	201 53 55.5	59 31.9	+0.54	9.998 6064	1202	6 22	17 9
17	266.5	1 39 5.23	202 53 27.4	59 34.4	+0.50	9.998 4862	1201	6 24	17 7
18	267.5	1 43 1.79	203 53 1.8	59 36.7	+0.44	9.998 3661	1202	6 25	17 5
19	268.5	1 46 58.34	204 52 38.5	59 38.9	+0.34	9.998 2459	1202	6 27	17 3
20	269.5	1 50 54.90	205 52 17.4	59 40.9	+0.23	9.998 1257	1203	6 28	17 1
21	270.5	1 54 51.45	206 51 58.3	59 43.0	+0.10	9.998 0054	1204	6 30	16 59
22	271.5	1 58 48.00	207 51 41.3	59 45.1	—0.04	9.997 8850	1205	6 32	16 57
23	272.5	2 2 44.56	208 51 26.4	59 47.0	—0.17	9.997 7645	1205	6 33	16 55
24	273.5	2 6 41.11	209 51 13.4	59 48.7	—0.29	9.997 6440	1205	6 35	16 53
25	274.5	2 10 37.67	210 51 2.1	59 50.5	—0.38	9.997 5235	1203	6 37	16 51
26	275.5	2 14 34.22	211 50 52.6	59 52.2	—0.45	9.997 4032	1199	6 38	16 49
27	276.5	2 18 30.78	212 50 44.8	59 54.0	—0.50	9.997 2833	1193	6 40	16 47
28	277.5	2 22 27.34	213 50 38.8	59 55.7	—0.52	9.997 1640	1188	6 42	16 45
29	278.5	2 26 23.89	214 50 34.5	59 57.3	—0.53	9.997 0452	1180	6 43	16 44
30	279.5	2 30 20.45	215 50 31.8	59 58.8	—0.49	9.996 9272	1170	6 45	16 42
31	280.5	2 34 17.00	216 50 30.6	60 0.6	—0.43	9.996 8102	1160	6 46	16 40
Nov. 1	281.5	2 38 13.56	217 50 31.2	60 2.1	—0.35	9.996 6942	1148	6 48	16 38
2	282.5	2 42 10.11	218 50 33.3	60 3.9	—0.24	9.996 5794	1135	6 50	16 37
3	283.5	2 46 6.67	219 50 37.2	60 5.5	—0.12	9.996 4659	1121	6 52	16 35
4	284.5	2 50 3.22	220 50 42.7	60 7.3	+0.02	9.996 3538	1105	6 53	16 33
5	285.5	2 53 59.78	221 50 50.0	60 8.9	+0.16	9.996 2433	1089	6 55	16 32
6	286.5	2 57 56.34	222 50 58.9	60 10.8	+0.31	9.996 1344	1072	6 56	16 30
7	287.5	3 1 52.89	223 51 9.7	60 12.4	+0.44	9.996 0272	1055	6 58	16 28
8	288.5	3 5 49.45	224 51 22.1	60 14.4	+0.56	9.995 9217	1037	7 0	16 27
9	289.5	3 9 46.00	225 51 36.5	60 16.2	+0.67	9.995 8180	1019	7 2	16 25
10	290.5	3 13 42.56	226 51 52.7	60 18.3	+0.74	9.995 7161	1003	7 3	16 24
11	291.5	3 17 39.12	227 52 11.0	60 20.1	+0.79	9.995 6158	987	7 5	16 22
12	292.5	3 21 35.67	228 52 31.1	60 22.1	+0.80	9.995 5171	972	7 6	16 21
13	293.5	3 25 32.23	229 52 53.2	60 24.2	+0.78	9.995 4199	957	7 8	16 20
14	294.5	3 29 28.79	230 53 17.4	60 26.0	+0.71	9.995 3242	943	7 10	16 18
15	295.5	3 33 25.34	231 53 43.4	60 28.0	+0.64	9.995 2299	932	7 11	16 17
16	296.5	3 37 21.90	232 54 11.4	60 29.8	+0.54	9.995 1367	922	7 13	16 16
17	297.5	3 41 18.46	233 54 41.2	60 31.6	+0.43	9.995 0445	911	7 15	16 14
18	298.5	3 45 15.02	234 55 12.8	60 33.4	+0.30	9.994 9534	902	7 16	16 13
19	299.5	3 49 11.57	235 55 46.2	60 34.9	+0.18	9.994 8632	892	7 18	16 12
20	300.5	3 53 8.13	236 56 21.1	60 36.5	+0.05	9.994 7740	884	7 20	16 11
21	301.5	3 57 4.69	237 56 57.6	60 37.9	—0.05	9.994 6856	874	7 21	16 10
22	302.5	4 1 1.25	238 57 35.5	60 39.3	—0.13	9.994 5982	864	7 22	16 9
23	303.5	4 4 57.80	239 58 14.8	60 40.5	—0.19	9.994 5118	852	7 24	16 8
24	304.5	4 8 54.36	240 58 55.3		—0.21	9.994 4266		7 26	16 7

Tag		Wochentag	0ʰ Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1930			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Nov.	24	Mo	−13 31.54	17.21	15 55 22.82	4 13.77	−20 21 58.4	12 18.3	69.46	16 13.92
	25	Di	13 14.33	17.97	15 59 36.59	4 14.53	20 34 16.7	11 55.4	69.57	16 14.11
	26	Mi	12 56.36	18.70	16 3 51.12	4 15.26	20 46 12.1	11 32.0	69.67	16 14.29
	27	Do	12 37.66	19.43	16 8 6.38	4 15.98	20 57 44.1	11 8.4	69.77	16 14.47
	28	Fr.	12 18.23	20.13	16 12 22.36	4 16.69	21 8 52.5	10 44.4	69.87	16 14.65
	29	Sa	11 58.10	20.81	16 16 39.05	4 17.37	21 19 36.9	10 20.1	69.97	16 14.83
	30	St	−11 37.29	21.48	16 20 56.42	4 18.03	−21 29 57.0	9 55.6	70.06	16 15.00
Dez.	1	Mo	11 15.81	22.12	16 25 14.45	4 18.68	21 39 52.6	9 30.8	70.16	16 15.16
	2	Di	10 53.69	22.75	16 29 33.13	4 19.31	21 49 23.4	9 5.7	70.25	16 15.32
	3	Mi	10 30.94	23.37	16 33 52.44	4 19.93	21 58 29.1	8 40.3	70.33	16 15.48
	4	Do	10 7.57	23.95	16 38 12.37	4 20.51	22 7 9.4	8 14.7	70.41	16 15.63
	5	Fr	9 43.62	24.51	16 42 32.88	4 21.08	22 15 24.1	7 48.8	70.49	16 15.78
	6	Sa	−9 19.11	25.07	16 46 53.96	4 21.62	−22 23 12.9	7 22.8	70.57	16 15.92
	7	St	8 54.04	25.60	16 51 15.58	4 22.15	22 30 35.7	6 56.4	70.64	16 16.05
	8	Mo	8 28.44	26.10	16 55 37.73	4 22.66	22 37 32.1	6 29.9	70.71	16 16.18
	9	Di	8 2.34	26.58	17 0 0.39	4 23.15	22 44 2.0	6 3.2	70.78	16 16.30
	10	Mi	7 35.76	27.04	17 4 23.54	4 23.60	22 50 5.2	5 36.2	70.85	16 16.41
	11	Do	7 8.72	27.48	17 8 47.14	4 24.03	22 55 41.4	5 9.2	70.91	16 16.53
	12	Fr	−6 41.24	27.88	17 13 11.17	4 24.44	−23 0 50.6	4 41.9	70.96	16 16.63
	13	Sa	6 13.36	28.25	17 17 35.61	4 24.81	23 5 32.5	4 14.4	71.01	16 16.73
	14	St	5 45.11	28.60	17 22 0.42	4 25.16	23 9 46.9	3 46.8	71.05	16 16.83
	15	Mo	5 16.51	28.90	17 26 25.58	4 25.46	23 13 33.7	3 19.1	71.09	16 16.92
	16	Di	4 47.61	29.17	17 30 51.04	4 25.73	23 16 52.8	2 51.1	71.13	16 17.01
	17	Mi	4 18.44	29.40	17 35 16.77	4 25.96	23 19 43.9	2 23.1	71.16	16 17.09
	18	Do	−3 49.04	29.60	17 39 42.73	4 26.16	−23 22 7.0	1 55.0	71.19	16 17.17
	19	Fr	3 19.44	29.77	17 44 8.89	4 26.32	23 24 2.0	1 26.8	71.21	16 17.25
	20	Sa	2 49.67	29.88	17 48 35.21	4 26.45	23 25 28.8	0 58.5	71.23	16 17.32
	21	St	2 19.79	29.96	17 53 1.66	4 26.52	23 26 27.3	0 30.3	71.24	16 17.39
	22	Mo	1 49.83	30.01	17 57 28.18	4 26.56	23 26 57.6	0 1.9	71.25	16 17.45
	23	Di	1 19.82	30.01	18 1 54.74	4 26.58	23 26 59.5	0 26.4	71.26	16 17.52
	24	Mi	−0 49.81	29.99	18 6 21.32	4 26.54	−23 26 33.1	0 54.7	71.26	16 17.57
	25	Do	−0 19.82	29.92	18 10 47.86	4 26.48	23 25 38.4	1 22.9	71.25	16 17.63
	26	Fr	+0 10.10	29.81	18 15 14.34	4 26.37	23 24 15.5	1 51.2	71.24	16 17.68
	27	Sa	0 39.91	29.67	18 19 40.71	4 26.23	23 22 24.3	2 19.4	71.23	16 17.72
	28	St	1 9.58	29.51	18 24 6.94	4 26.06	23 20 4.9	2 47.5	71.21	16 17.76
	29	Mo	1 39.09	29.29	18 28 33.00	4 25.85	23 17 17.4	3 15.5	71.18	16 17.80
	30	Di	+2 8.38	29.05	18 32 58.85	4 25.62	−23 14 1.9	3 43.5	71.15	16 17.83
	31	Mi	2 37.43	28.79	18 37 24.47	4 25.35	23 10 18.4	4 11.3	71.12	16 17.85
	32	Do	+3 6.22		18 41 49.82		−23 6 7.1		71.09	16 17.87

Tag	Julian. Zeit	Sternzeit	Mittleres Äquinoktium 1930.0 Länge		Breite	log R		Aufgang (in +50° Breite, 0h Länge)	Untergang (in +50° Breite, 0h Länge)
1930	2426	h m s	° ′ ″	′ ″	″			h m	h m
Nov. 24	304.5	4 8 54.36	240 58 55.3	60 41.7	−0.21	9.994 4266	839	7 26	16 7
25	305.5	4 12 50.92	241 59 37.0	60 42.8	−0.22	9.994 3427	825	7 27	16 6
26	306.5	4 16 47.48	243 0 19.8	60 43.9	−0.18	9.994 2602	811	7 29	16 5
27	307.5	4 20 44.03	244 1 3.7	60 45.1	−0.13	9.994 1791	794	7 30	16 4
28	308.5	4 24 40.59	245 1 48.8	60 46.0	−0.06	9.994 0997	777	7 32	16 4
29	309.5	4 28 37.15	246 2 34.8	60 46.9	+0.05	9.994 0220	759	7 33	16 3
30	310.5	4 32 33.71	247 3 21.7	60 47.9	+0.17	9.993 9461	738	7 34	16 2
Dez. 1	311.5	4 36 30.27	248 4 9.6	60 48.9	+0.29	9.993 8723	716	7 36	16 2
2	312.5	4 40 26.83	249 4 58.5	60 49.8	+0.43	9.993 8007	694	7 37	16 1
3	313.5	4 44 23.38	250 5 48.3	60 50.8	+0.56	9.993 7313	671	7 38	16 1
4	314.5	4 48 19.94	251 6 39.1	60 51.7	+0.69	9.993 6642	647	7 40	16 0
5	315.5	4 52 16.50	252 7 30.8	60 52.8	+0.83	9.993 5995	621	7 41	16 0
6	316.5	4 56 13.06	253 8 23.6	60 53.8	+0.94	9.993 5374	595	7 42	15 59
7	317.5	5 0 9.62	254 9 17.4	60 54.8	+1.01	9.993 4779	568	7 43	15 59
8	318.5	5 4 6.18	255 10 12.2	60 55.9	+1.06	9.993 4211	542	7 44	15 59
9	319.5	5 8 2.74	256 11 8.1	60 57.0	+1.09	9.993 3669	517	7 46	15 58
10	320.5	5 11 59.29	257 12 5.1	60 58.1	+1.08	9.993 3152	493	7 47	15 58
11	321.5	5 15 55.85	258 13 3.2	60 59.3	+1.03	9.993 2659	470	7 48	15 58
12	322.5	5 19 52.41	259 14 2.5	61 0.5	+0.95	9.993 2189	448	7 49	15 58
13	323.5	5 23 48.97	260 15 3.0	61 1.6	+0.86	9.993 1741	427	7 50	15 58
14	324.5	5 27 45.53	261 16 4.6	61 2.6	+0.74	9.993 1314	407	7 50	15 58
15	325.5	5 31 42.09	262 17 7.2	61 3.6	+0.62	9.993 0907	389	7 51	15 58
16	326.5	5 35 38.65	263 18 10.8	61 4.6	+0.49	9.993 0518	372	7 52	15 58
17	327.5	5 39 35.21	264 19 15.4	61 5.4	+0.36	9.993 0146	355	7 53	15 59
18	328.5	5 43 31.77	265 20 20.8	61 6.1	+0.25	9.992 9791	338	7 54	15 59
19	329.5	5 47 28.33	266 21 26.9	61 6.7	+0.17	9.992 9453	325	7 54	15 59
20	330.5	5 51 24.89	267 22 33.6	61 7.3	+0.11	9.992 9128	308	7 55	16 0
21	331.5	5 55 21.44	268 23 40.9	61 7.7	+0.08	9.992 8820	291	7 56	16 0
22	332.5	5 59 18.00	269 24 48.6	61 8.1	+0.07	9.992 8529	274	7 56	16 1
23	333.5	6 3 14.56	270 25 56.7	61 8.3	+0.08	9.992 8255	257	7 57	16 1
24	334.5	6 7 11.12	271 27 5.0	61 8.5	+0.13	9.992 7998	239	7 57	16 2
25	335.5	6 11 7.68	272 28 13.5	61 8.7	+0.20	9.992 7759	219	7 58	16 2
26	336.5	6 15 4.24	273 29 22.2	61 8.8	+0.29	9.992 7540	199	7 58	16 3
27	337.5	6 19 0.80	274 30 31.0	61 8.7	+0.40	9.992 7341	178	7 58	16 4
28	338.5	6 22 57.36	275 31 39.7	61 8.7	+0.52	9.992 7163	155	7 58	16 4
29	339.5	6 26 53.92	276 32 48.4	61 8.7	+0.64	9.992 7008	132	7 59	16 5
30	340.5	6 30 50.48	277 33 57.1	61 8.6	+0.76	9.992 6876	108	7 59	16 6
31	341.5	6 34 47.04	278 35 5.7	61 8.4	+0.89	9.992 6768	82	7 59	16 7
32	342.5	6 38 43.60	279 36 14.1		+0.99	9.992 6686		7 59	16 8

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1930 Jan. 0	0ʰ	+0.151 2267	8 6380	−11840	−0.891 4029	1 2757	−1683	−0.386 6393	5531	−732
0	12	0.159 8647	8 6256		0.890 1272	1 3452		0.386 0862	5835	
1	0	0.168 4903	8 6123	11805	0.888 7820	1 4147	1876	0.385 5027	6135	816
1	12	0.177 1026	8 5982		0.887 3673	1 4839		0.384 8892	6435	
2	0	0.185 7008	8 5837	11767	0.885 8834	1 5532	2069	0.384 2457	6736	900
2	12	0.194 2845	8 5683		0.884 3302	1 6223		0.383 5721	7037	
3	0	+0.202 8528	8 5524	−11725	−0.882 7079	1 6912	−2260	−0.382 8684	7336	−983
3	12	0.211 4052	8 5356		0.881 0167	1 7599		0.382 1348	7634	
4	0	0.219 9408	8 5182	11679	0.879 2568	1 8285	2451	0.381 3714	7933	1066
4	12	0.228 4590	8 4999		0.877 4283	1 8970		0.380 5781	8229	
5	0	0.236 9589	8 4813	11630	0.875 5313	1 9651	2641	0.379 7552	8525	1149
5	12	0.245 4402	8 4617		0.873 5662	2 0332		0.378 9027	8822	
6	0	+0.253 9019	8 4417	−11577	−0.871 5330	2 1010	−2830	−0.378 0205	9116	−1231
6	12	0.262 3436	8 4208		0.869 4320	2 1687		0.377 1089	9409	
7	0	0.270 7644	8 3995	11520	0.867 2633	2 2362	3019	0.376 1680	9702	1313
7	12	0.279 1639	8 3772		0.865 0271	2 3035		0.375 1978	9994	
8	0	0.287 5411	8 3546	11460	0.862 7236	2 3704	3206	0.374 1984	1 0284	1394
8	12	0.295 8957	8 3311		0.860 3532	2 4372		0.373 1700	1 0575	
9	0	+0.304 2268	8 3071	−11396	−0.857 9160	2 5038	−3393	−0.372 1125	1 0863	−1475
9	12	0.312 5339	8 2824		0.855 4122	2 5700		0.371 0262	1 1152	
10	0	0.320 8163	8 2572	11329	0.852 8422	2 6362	3578	0.369 9110	1 1437	1556
10	12	0.329 0735	8 2312		0.850 2060	2 7019		0.368 7673	1 1723	
11	0	0.337 3047	8 2048	11258	0.847 5041	2 7675	3762	0.367 5950	1 2007	1636
11	12	0.345 5095	8 1776		0.844 7366	2 8329		0.366 3943	1 2291	
12	0	+0.353 6871	8 1501	−11184	−0.841 9037	2 8980	−3945	−0.365 1652	1 2572	−1716
12	12	0.361 8372	8 1218		0.839 0057	2 9628		0.363 9080	1 2853	
13	0	0.369 9590	8 0931	11106	0.836 0429	3 0274	4127	0.362 6227	1 3133	1795
13	12	0.378 0521	8 0637		0.833 0155	3 0918		0.361 3094	1 3412	
14	0	0.386 1158	8 0337	11025	0.829 9237	3 1558	4308	0.359 9682	1 3690	1873
14	12	0.394 1495	8 0031		0.826 7679	3 2198		0.358 5992	1 3967	
15	0	+0.402 1526	7 9722	−10940	−0.823 5481	3 2833	−4487	−0.357 2025	1 4242	−1951
15	12	0.410 1248	7 9405		0.820 2648	3 3468		0.355 7783	1 4517	
16	0	0.418 0653	7 9084	10852	0.816 9180	3 4099	4665	0.354 3266	1 4790	2028
16	12	0.425 9737	7 8757		0.813 5081	3 4729		0.352 8476	1 5063	
17	0	0.433 8494	7 8422	10761	0.810 0352	3 5356	4842	0.351 3413	1 5334	2105
17	12	0.441 6916	7 8083		0.806 4996	3 5981		0.349 8079	1 5605	
18	0	+0.449 4999	7 7739	−10666	−0.802 9015	3 6603	−5017	−0.348 2474	1 5874	−2181
18	12	0.457 2738	7 7388		0.799 2412	3 7223		0.346 6600	1 6144	
19	0	0.465 0126	7 7031	10568	0.795 5189	3 7840	5190	0.345 0456	1 6410	2257
19	12	0.472 7157	7 6669		0.791 7349	3 8456		0.343 4046	1 6677	
20	0	0.480 3826	7 6300	−10467	0.787 8893	3 9067	−5362	0.341 7369	1 6942	−2332
20	12	+0.488 0126			−0.783 9826			−0.340 0427		

Welt-Zeit		Mittleres Äquinoktium 1930.0 X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1930	h									
Jan. 20	12	+0.488 0126	7 5924		−0.783 9826	3 9678		−0.340 0427	1 7208	
21	0	0.495 6050	7 5545	−10363	0.780 0148	4 0284	−5532	0.338 3219	1 7469	−2406
21	12	0.503 1595	7 5157		0.775 9864	4 0888		0.336 5750	1 7732	
22	0	0.510 6752	7 4764	10255	0.771 8976	4 1489	5701	0.334 8018	1 7992	2479
22	12	0.518 1516	7 4365		0.767 7487	4 2088		0.333 0026	1 8252	
23	0	0.525 5881	7 3962	10144	0.763 5399	4 2684	5867	0.331 1774	1 8510	2552
23	12	+0.532 9843	7 3549		−0.759 2715	4 3272		−0.329 3264	1 8766	
24	0	0.540 3392	7 3132	−10030	0.754 9443	4 3862	−6032	0.327 4498	1 9022	−2623
24	12	0.547 6524	7 2708		0.750 5581	4 4448		0.325 5476	1 9276	
25	0	0.554 9232	7 2282	9913	0.746 1133	4 5028	6195	0.323 6200	1 9527	2694
25	12	0.562 1514	7 1845		0.741 6105	4 5608		0.321 6673	1 9780	
26	0	0.569 3359	7 1405	9793	0.737 0497	4 6181	6356	0.319 6893	2 0028	2764
26	12	+0.576 4764	7 0958		−0.732 4316	4 6752		−0.317 6865	2 0276	
27	0	0.583 5722	7 0505	− 9670	0.727 7564	4 7319	−6515	0.315 6589	2 0523	−2833
27	12	0.590 6227	7 0047		0.723 0245	4 7882		0.313 6066	2 0768	
28	0	0.597 6274	6 9584	9543	0.718 2363	4 8441	6672	0.311 5298	2 1010	2902
28	12	0.604 5858	6 9113		0.713 3922	4 8997		0.309 4288	2 1252	
29	0	0.611 4971	6 8639	9414	0.708 4925	4 9547	6827	0.307 3036	2 1490	2969
29	12	+0.618 3610	6 8158		−0.703 5378	5 0095		−0.305 1546	2 1728	
30	0	0.625 1768	6 7673	− 9282	0.698 5283	5 0638	−6980	0.302 9818	2 1964	−3036
30	12	0.631 9441	6 7180		0.693 4645	5 1176		0.300 7854	2 2199	
31	0	0.638 6621	6 6684	9147	0.688 3469	5 1709	7131	0.298 5655	2 2429	3101
31	12	0.645 3305	6 6182		0.683 1760	5 2240		0.296 3226	2 2660	
Febr. 1	0	0.651 9487	6 5674	9009	0.677 9520	5 2766	7279	0.294 0566	2 2888	3166
1	12	+0.658 5161	6 5162		−0.672 6754	5 3287		−0.291 7678	2 3115	
2	0	0.665 0323	6 4644	− 8868	0.667 3467	5 3802	−7425	0.289 4563	2 3339	−3229
2	12	0.671 4967	6 4121		0.661 9665	5 4315		0.287 1224	2 3562	
3	0	0.677 9088	6 3594	8724	0.656 5350	5 4821	7569	0.284 7662	2 3780	3292
3	12	0.684 2682	6 3062		0.651 0529	5 5324		0.282 3882	2 3999	
4	0	0.690 5744	6 2524	8578	0.645 5205	5 5821	7711	0.279 9883	2 4216	3353
4	12	+0.696 8268	6 1983		−0.639 9384	5 6315		−0.277 5667	2 4429	
5	0	0.703 0251	6 1438	− 8429	0.634 3069	5 6801	−7850	0.275 1238	2 4641	−3413
5	12	0.709 1689	6 0886		0.628 6268	5 7285		0.272 6597	2 4850	
6	0	0.715 2575	6 0331	8278	0.622 8983	5 7763	7987	0.270 1747	2 5057	3473
6	12	0.721 2906	5 9772		0.617 1220	5 8236		0.267 6690	2 5263	
7	0	0.727 2678	5 9210	8124	0.611 2984	5 8704	8121	0.265 1427	2 5466	3531
7	12	+0.733 1888	5 8641		−0.605 4280	5 9168		−0.262 5961	2 5667	
8	0	0.739 0529	5 8071	− 7968	0.599 5112	5 9626	−8253	0.260 0294	2 5864	−3589
8	12	0.744 8600	5 7495		0.593 5486	6 0079		0.257 4430	2 6062	
9	0	0.750 6095	5 6917	7809	0.587 5407	6 0527	8382	0.254 8368	2 6255	3645
9	12	0.756 3012	5 6333		0.581 4880	6 0972		0.252 2113	2 6449	
10	0	+0.761 9345		− 7647	−0.575 3908		−8509	−0.249 5664		−3700

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1930										
Febr. 10	0h	+0.761 9345	5 5748	−7647	−0.575 3908	6 1410	− 8509	−0.249 5664	2 6637	−3700
10	12	0.767 5093	5 5158		0.569 2498	6 1844		0.246 9027	2 6825	
11	0	0.773 0251	5 4564	7484	0.563 0654	6 2274	8633	0.244 2202	2 7011	3754
11	12	0.778 4815	5 3969		0.556 8380	6 2699		0.241 5191	2 7196	
12	0	0.783 8784	5 3368	7318	0.550 5681	6 3118	8754	0.238 7995	2 7376	3807
12	12	0.789 2152	5 2764		0.544 2563	6 3533		0.236 0619	2 7556	
13	0	+0.794 4916	5 2157	−7149	−0.537 9030	6 3944	− 8873	−0.233 3063	2 7734	−3859
13	12	0.799 7073	5 1547		0.531 5086	6 4350		0.230 5329	2 7911	
14	0	0.804 8620	5 0933	6979	0.525 0736	6 4752	8989	0.227 7418	2 8084	3909
14	12	0.809 9553	5 0316		0.518 5984	6 5148		0.224 9334	2 8255	
15	0	0.814 9869	4 9695	6807	0.512 0836	6 5540	9102	0.222 1079	2 8425	3958
15	12	0.819 9564	4 9069		0.505 5296	6 5928		0.219 2654	2 8594	
16	0	+0.824 8633	4 8442	−6632	−0.498 9368	6 6311	− 9213	−0.216 4060	2 8759	−4006
16	12	0.829 7075	4 7809		0.492 3057	6 6690		0.213 5301	2 8922	
17	0	0.834 4884	4 7174	6456	0.485 6367	6 7063	9320	0.210 6379	2 9085	4053
17	12	0.839 2058	4 6535		0.478 9304	6 7432		0.207 7294	2 9244	
18	0	0.843 8593	4 5893	6277	0.472 1872	6 7795	9425	0.204 8050	2 9401	4099
18	12	0.848 4486	4 5245		0.465 4077	6 8154		0.201 8649	2 9558	
19	0	+0.852 9731	4 4596	−6097	−0.458 5923	6 8508	− 9527	−0.198 9091	2 9711	−4143
19	12	0.857 4327	4 3942		0.451 7415	6 8856		0.195 9380	2 9863	
20	0	0.861 8269	4 3285	5915	0.444 8559	6 9200	9626	0.192 9517	3 0012	4186
20	12	0.866 1554	4 2623		0.437 9359	6 9538		0.189 9505	3 0159	
21	0	0.870 4177	4 1961	5730	0.430 9821	6 9870	9722	0.186 9346	3 0302	4227
21	12	0.874 6138	4 1293		0.423 9951	7 0197		0.183 9044	3 0445	
22	0	+0.878 7431	4 0622	−5544	−0.416 9754	7 0519	− 9816	−0.180 8599	3 0584	−4268
22	12	0.882 8053	3 9948		0.409 9235	7 0836		0.177 8015	3 0723	
23	0	0.886 8001	3 9271	5357	0.402 8399	7 1146	9906	0.174 7292	3 0857	4307
23	12	0.890 7272	3 8590		0.395 7253	7 1452		0.171 6435	3 0990	
24	0	0.894 5862	3 7908	5167	0.388 5801	7 1751	9993	0.168 5445	3 1120	4345
24	12	0.898 3770	3 7220		0.381 4050	7 2045		0.165 4325	3 1249	
25	0	+0.902 0990	3 6531	−4976	−0.374 2005	7 2334	−10077	−0.162 3076	3 1373	−4382
25	12	0.905 7521	3 5839		0.366 9671	7 2616		0.159 1703	3 1497	
26	0	0.909 3360	3 5144	4784	0.359 7055	7 2891	10158	0.156 0206	3 1617	4417
26	12	0.912 8504	3 4447		0.352 4164	7 3163		0.152 8589	3 1735	
27	0	0.916 2951	3 3746	4590	0.345 1001	7 3428	10236	0.149 6854	3 1849	4451
27	12	0.919 6697	3 3043		0.337 7573	7 3687		0.146 5005	3 1962	
28	0	+0.922 9740	3 2337	−4395	−0.330 3886	7 3940	−10311	−0.143 3043	3 2072	−4484
28	12	0.926 2077	3 1630		0.322 9946	7 4187		0.140 0971	3 2179	
März 1	0	0.929 3707	3 0920	4198	0.315 5759	7 4427	10382	0.136 8792	3 2285	4515
1	12	0.932 4627	3 0207		0.308 1332	7 4661		0.133 6507	3 2387	
2	0	0.935 4834	2 9492	−4000	0.300 6671	7 4890	−10450	0.130 4120	3 2485	−4545
2	12	+0.938 4326			−0.293 1781			−0.127 1635		

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1930 März 2	12h	+0.938 4326	2 8777		−0.293 1781	7 5112		−0.127 1635	3 2583	
3	0	0.941 3103	2 8058	−3801	0.285 6669	7 5329	−10516	0.123 9052	3 2676	−4573
3	12	0.944 1161	2 7337		0.278 1340	7 5539		0.120 6376	3 2768	
4	0	0.946 8498	2 6616	3601	0.270 5801	7 5743	10578	0.117 3608	3 2856	4600
4	12	0.949 5114	2 5893		0.263 0058	7 5940		0.114 0752	3 2942	
5	0	0.952 1007	2 5167	3400	0.255 4118	7 6131	10636	0.110 7810	3 3025	4626
5	12	+0.954 6174	2 4441		−0.247 7987	7 6317		−0.107 4785	3 3105	
6	0	0.957 0615	2 3714	−3197	0.240 1670	7 6496	−10692	0.104 1680	3 3182	−4650
6	12	0.959 4329	2 2984		0.232 5174	7 6669		0.100 8498	3 3257	
7	0	0.961 7313	2 2254	2993	0.224 8505	7 6836	10744	0.097 5241	3 3330	4673
7	12	0.963 9567	2 1524		0.217 1669	7 6997		0.094 1911	3 3399	
8	0	0.966 1091	2 0793	2789	0.209 4672	7 7151	10793	0.090 8512	3 3466	4694
8	12	+0.968 1884	2 0060		−0.201 7521	7 7300		−0.087 5046	3 3530	
9	0	0.970 1944	1 9327	−2584	0.194 0221	7 7441	−10839	0.084 1516	3 3591	−4714
9	12	0.972 1271	1 8593		0.186 2780	7 7579		0.080 7925	3 3651	
10	0	0.973 9864	1 7859	2378	0.178 5201	7 7710	10882	0.077 4274	3 3707	4732
10	12	0.975 7723	1 7124		0.170 7491	7 7836		0.074 0567	3 3760	
—11	0	0.977 4847	1 6388	2171	0.162 9655	7 7954	10921	0.070 6807	3 3812	4749
11	12	+0.979 1235	1 5653		−0.155 1701	7 8069		−0.067 2995	3 3861	
12	0	0.980 6888	1 4916	−1964	0.147 3632	7 8176	−10957	0.063 9134	3 3908	−4765
12	12	0.982 1804	1 4180		0.139 5456	7 8280		0.060 5226	3 3952	
13	0	0.983 5984	1 3443	1756	0.131 7176	7 8375	10990	0.057 1274	3 3993	4779
13	12	0.984 9427	1 2706		0.123 8801	7 8467		0.053 7281	3 4032	
14	0	0.986 2133	1 1968	1548	0.116 0334	7 8555	11019	0.050 3249	3 4070	4792
14	12	+0.987 4101	1 1229		−0.108 1779	7 8634		−0.046 9179	3 4104	
15	0	0.988 5330	1 0491	−1339	0.100 3145	7 8710	−11045	0.043 5075	3 4136	−4803
15	12	0.989 5821	9751		0.092 4435	7 8779		0.040 0939	3 4167	
16	0	0.990 5572	9011	1130	0.084 5656	7 8844	11067	0.036 6772	3 4195	4813
16	12	0.991 4583	8271		0.076 6812	7 8903		0.033 2577	3 4220	
17	0	0.992 2854	7531	921	0.068 7909	7 8956	11087	0.029 8357	3 4242	4821
17	12	+0.993 0385	6789		−0.060 8953	7 9004		−0.026 4115	3 4264	
18	0	0.993 7174	6046	− 711	0.052 9949	7 9047	−11103	0.022 9851	3 4282	−4828
18	12	0.994 3220	5304		0.045 0902	7 9082		0.019 5569	3 4298	
19	0	0.994 8524	4561	501	0.037 1820	7 9114	11116	0.016 1271	3 4312	4834
19	12	0.995 3085	3818		0.029 2706	7 9139		0.012 6959	3 4322	
20	0	0.995 6903	3073	291	0.021 3567	7 9157	11125	0.009 2637	3 4330	4838
20	12	+0.995 9976	2329		−0.013 4410	7 9171		−0.005 8307	3 4337	
21	0	0.996 2305	1585	− 81	−0.005 5239	7 9178	−11131	−0.002 3970	3 4340	−4841
21	12	0.996 3890	840		+0.002 3939	7 9180		+0.001 0370	3 4342	
22	0	0.996 4730	95	+ 129	0.010 3119	7 9176	11134	0.004 4712	3 4340	4842
22	12	0.996 4825	650		0.018 2295	7 9165		0.007 9052	3 4336	
23	0	+0.996 4175		+ 339	+0.026 1460		−11134	+0.011 3388		−4842

Welt-Zeit		Mittleres Äquinoktium 1930.0 X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1930	h									
März 23	0	+0.996 4175	1394	+ 339	+0.026 1460	7 9149	−11134	+0.011 3388	3 4329	−4842
23	12	0.996 2781	2140		0.034 0609	7 9127		0.014 7717	3 4319	
24	0	0.996 0641	2884	550	0.041 9736	7 9098	11130	0.018 2036	3 4308	4840
24	12	0.995 7757	3630		0.049 8834	7 9065		0.021 6344	3 4293	
25	0	0.995 4127	4373	760	0.057 7899	7 9024	11123	0.025 0637	3 4276	4837
25	12	0.994 9754	5117		0.065 6923	7 8977		0.028 4913	3 4256	
26	0	+0.994 4637	5861	+ 970	+0.073 5900	7 8924	−11112	+0.031 9169	3 4234	−4832
26	12	0.993 8776	6603		0.081 4824	7 8866		0.035 3403	3 4209	
27	0	0.993 2173	7345	1180	0.089 3690	7 8801	11098	0.038 7612	3 4181	4826
27	12	0.992 4828	8088		0.097 2491	7 8730		0.042 1793	3 4149	
28	0	0.991 6740	8829	1389	0.105 1221	7 8654	11081	0.045 5942	3 4117	4819
28	12	0.990 7911	9569		0.112 9875	7 8569		0.049 0059	3 4082	
29	0	+0.989 8342	1 0308	+1598	+0.120 8444	7 8481	−11061	+0.052 4141	3 4043	−4810
29	12	0.988 8034	1 1047		0.128 6925	7 8385		0.055 8184	3 4002	
30	0	0.987 6987	1 1784	1806	0.136 5310	7 8284	11037	0.059 2186	3 3957	4800
30	12	0.986 5203	1 2519		0.144 3594	7 8175		0.062 6143	3 3911	
31	0	0.985 2684	1 3254	2014	0.152 1769	7 8061	11010	0.066 0054	3 3862	4788
31	12	0.983 9430	1 3988		0.159 9830	7 7941		0.069 3916	3 3810	
April 1	0	+0.982 5442	1 4719	+2221	+0.167 7771	7 7814	−10980	+0.072 7726	3 3755	−4775
1	12	0.981 0723	1 5449		0.175 5585	7 7682		0.076 1481	3 3697	
2	0	0.979 5274	1 6177	2428	0.183 3267	7 7543	10946	0.079 5178	3 3637	4760
2	12	0.977 9097	1 6904		0.191 0810	7 7399		0.082 8815	3 3575	
3	0	0.976 2193	1 7628	2633	0.198 8209	7 7249	10909	0.086 2390	3 3509	4744
3	12	0.974 4565	1 8350		0.206 5458	7 7093		0.089 5899	3 3441	
4	0	+0.972 6215	1 9071	+2838	+0.214 2551	7 6932	−10869	+0.092 9340	3 3370	−4727
4	12	0.970 7144	1 9790		0.221 9483	7 6763		0.096 2710	3 3298	
5	0	0.968 7354	2 0504	3042	0.229 6246	7 6589	10826	0.099 6008	3 3221	4708
5	12	0.966 6850	2 1218		0.237 2835	7 6410		0.102 9229	3 3144	
6	0	0.964 5632	2 1929	3245	0.244 9245	7 6226	10780	0.106 2373	3 3065	4688
6	12	0.962 3703	2 2638		0.252 5471	7 6036		0.109 5438	3 2980	
7	0	+0.960 1065	2 3343	+3447	+0.260 1507	7 5840	−10730	+0.112 8418	3 2895	−4666
7	12	0.957 7722	2 4048		0.267 7347	7 5640		0.116 1313	3 2807	
8	0	0.955 3674	2 4749	3649	0.275 2987	7 5434	10677	0.119 4120	3 2718	4643
8	12	0.952 8925	2 5448		0.282 8421	7 5223		0.122 6838	3 2626	
9	0	0.950 3477	2 6143	3849	0.290 3644	7 5007	10621	0.125 9464	3 2533	4619
9	12	0.947 7334	2 6837		0.297 8651	7 4786		0.129 1997	3 2436	
10	0	+0.945 0497	2 7527	+4048	+0.305 3437	7 4560	−10562	+0.132 4433	3 2336	−4593
10	12	0.942 2970	2 8216		0.312 7997	7 4328		0.135 6769	3 2237	
11	0	0.939 4754	2 8902	4246	0.320 2325	7 4093	10500	0.138 9006	3 2135	4566
11	12	0.936 5852	2 9586		0.327 6418	7 3852		0.142 1141	3 2029	
12	0	0.933 6266	3 0267	+4443	0.335 0270	7 3607	−10434	0.145 3170	3 1923	−4538
12	12	+0.930 5999			+0.342 3877			+0.148 5093		

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1930 April 12	12[h]	+0.930 5999	3 0946		+0.342 3877	7 3355		+0.148 5093	3 1814	
13	0	0.927 5053	3 1621	+4638	0.349 7232	7 3102	−10366	0.151 6907	3 1703	−4508
13	12	0.924 3432	3 2296		0.357 0334	7 2841		0.154 8610	3 1590	
14	0	0.921 1136	3 2967	4832	0.364 3175	7 2576	10294	0.158 0200	3 1476	4477
14	12	0.917 8169	3 3636		0.371 5751	7 2306		0.161 1676	3 1357	
15	0	0.914 4533	3 4303	5024	0.378 8057	7 2031	10220	0.164 3033	3 1240	4445
15	12	+0.911 0230	3 4969		+0.386 0088	7 1752		+0.167 4273	3 1118	
16	0	0.907 5261	3 5630	+5215	0.393 1840	7 1468	−10142	0.170 5391	3 0996	−4411
16	12	0.903 9631	3 6290		0.400 3308	7 1177		0.173 6387	3 0869	
17	0	0.900 3341	3 6946	5405	0.407 4485	7 0884	10062	0.176 7256	3 0742	4376
17	12	0.896 6395	3 7602		0.414 5369	7 0584		0.179 7998	3 0612	
18	0	0.892 8793	3 8252	5593	0.421 5953	7 0280	9979	0.182 8610	3 0482	4340
18	12	+0.889 0541	3 8903		+0.428 6233	6 9969		+0.185 9092	3 0347	
19	0	0.885 1638	3 9549	+5779	0.435 6202	6 9656	− 9893	0.188 9439	3 0211	−4303
19	12	0.881 2089	4 0193		0.442 5858	6 9334		0.191 9650	3 0071	
20	0	0.877 1896	4 0834	5964	0.449 5192	6 9010	9804	0.194 9721	2 9932	4264
20	12	0.873 1062	4 1472		0.456 4202	6 8680		0.197 9653	2 9790	
21	0	0.868 9590	4 2106	6147	0.463 2882	6 8346	9712	0.200 9443	2 9644	4224
21	12	+0.864 7484	4 2740		+0.470 1228	6 8007		+0.203 9087	2 9498	
22	0	0.860 4744	4 3368	+6328	0.476 9235	6 7662	− 9618	0.206 8585	2 9348	−4183
22	12	0.856 1376	4 3994		0.483 6897	6 7310		0.209 7933	2 9196	
23	0	0.851 7382	4 4616	6507	0.490 4207	6 6957	9520	0.212 7129	2 9044	4140
23	12	0.847 2766	4 5236		0.497 1164	6 6596		0.215 6173	2 8887	
24	0	0.842 7530	4 5852	6684	0.503 7760	6 6232	9420	0.218 5060	2 8729	4097
24	12	+0.838 1678	4 6465		+0.510 3992	6 5861		+0.221 3789	2 8569	
25	0	0.833 5213	4 7074	+6860	0.516 9853	6 5488	− 9317	0.224 2358	2 8407	−4052
25	12	0.828 8139	4 7679		0.523 5341	6 5107		0.227 0765	2 8242	
26	0	0.824 0460	4 8282	7034	0.530 0448	6 4723	9211	0.229 9007	2 8076	4006
26	12	0.819 2178	4 8881		0.536 5171	6 4332		0.232 7083	2 7907	
27	0	0.814 3297	4 9474	7205	0.542 9503	6 3938	9103	0.235 4990	2 7735	3959
27	12	+0.809 3823	5 0065		+0.549 3441	6 3538		+0.238 2725	2 7562	
28	0	0.804 3758	5 0652	+7374	0.555 6979	6 3134	− 8992	0.241 0287	2 7388	−3910
28	12	0.799 3106	5 1234		0.562 0113	6 2724		0.243 7675	2 7209	
29	0	0.794 1872	5 1811	7541	0.568 2837	6 2311	8878	0.246 4884	2 7031	3861
29	12	0.789 0061	5 2387		0.574 5148	6 1891		0.249 1915	2 6849	
30	0	0.783 7674	5 2956	7706	0.580 7039	6 1469	8762	0.251 8764	2 6664	3810
30	12	+0.778 4718	5 3521		+0.586 8508	6 1041		+0.254 5428	2 6479	
Mai 1	0	0.773 1197	5 4081	+7869	0.592 9549	6 0609	− 8643	0.257 1907	2 6291	−3758
1	12	0.767 7116	5 4637		0.599 0158	6 0171		0.259 8198	2 6101	
2	0	0.762 2479	5 5190	8030	0.605 0329	5 9731	8522	0.262 4299	2 5911	3705
2	12	0.756 7289	5 5735		0.611 0060	5 9286		0.265 0210	2 5717	
3	0	+0.751 1554		+8188	+0.616 9346		− 8398	+0.267 5927		−3652

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1930										
Mai 3	0h	+0.751 1554	5 6276	+ 8188	+0.616 9346	5 8837	−8398	+0.267 5927	2 5521	−3652
3	12	0.745 5278	5 6814		0.622 8183	5 8383		0.270 1448	2 5323	
4	0	0.739 8464	5 7345	8344	0.628 6566	5 7926	8272	0.272 6771	2 5126	3597
4	12	0.734 1119	5 7874		0.634 4492	5 7466		0.275 1897	2 4925	
5	0	0.728 3245	5 8395	8497	0.640 1958	5 7000	8143	0.277 6822	2 4724	3541
5	12	0.722 4850	5 8913		0.645 8958	5 6533		0.280 1546	2 4519	
6	0	+0.716 5937	5 9426	+ 8648	+0.651 5491	5 6061	−8012	+0.282 6065	2 4314	−3484
6	12	0.710 6511	5 9935		0.657 1552	5 5585		0.285 0379	2 4107	
7	0	0.704 6576	6 0438	8796	0.662 7137	5 5107	7878	0.287 4486	2 3900	3426
7	12	0.698 6138	6 0937		0.668 2244	5 4624		0.289 8386	2 3690	
8	0	0.692 5201	6 1430	8942	0.673 6868	5 4138	7743	0.292 2076	2 3479	3367
8	12	0.686 3771	6 1920		0.679 1006	5 3649		0.294 5555	2 3267	
9	0	+0.680 1851	6 2404	+ 9085	+0.684 4655	5 3159	−7605	+0.296 8822	2 3054	−3307
9	12	0.673 9447	6 2886		0.689 7814	5 2664		0.299 1876	2 2839	
10	0	0.667 6561	6 3360	9226	0.695 0478	5 2165	7465	0.301 4715	2 2622	3246
10	12	0.661 3201	6 3831		0.700 2643	5 1663		0.303 7337	2 2404	
11	0	0.654 9370	6 4296	9364	0.705 4306	5 1159	7323	0.305 9741	2 2186	3184
11	12	0.648 5074	6 4759		0.710 5465	5 0650		0.308 1927	2 1965	
12	0	+0.642 0315	6 5217	+ 9500	+0.715 6115	5 0140	−7179	+0.310 3892	2 1744	−3121
12	12	0.635 5098	6 5670		0.720 6255	4 9626		0.312 5636	2 1521	
13	0	0.628 9428	6 6119	9632	0.725 5881	4 9109	7032	0.314 7157	2 1297	3058
13	12	0.622 3309	6 6563		0.730 4990	4 8588		0.316 8454	2 1072	
14	0	0.615 6746	6 7001	9762	0.735 3578	4 8065	6884	0.318 9526	2 0845	2993
14	12	0.608 9745	6 7438		0.740 1643	4 7538		0.321 0371	2 0617	
15	0	+0.602 2307	6 7868	+ 9889	+0.744 9181	4 7009	−6734	+0.323 0988	2 0387	−2928
15	12	0.595 4439	6 8294		0.749 6190	4 6475		0.325 1375	2 0155	
16	0	0.588 6145	6 8715	10013	0.754 2665	4 5938	6582	0.327 1530	1 9924	2862
16	12	0.581 7430	6 9133		0.758 8603	4 5399		0.329 1454	1 9690	
17	0	0.574 8297	6 9543	10134	0.763 4002	4 4858	6428	0.331 1144	1 9456	2795
17	12	0.567 8754	6 9952		0.767 8860	4 4310		0.333 0600	1 9218	
18	0	+0.560 8802	7 0354	+10253	+0.772 3170	4 3760	−6273	+0.334 9818	1 8981	−2728
18	12	0.553 8448	7 0752		0.776 6930	4 3209		0.336 8799	1 8741	
19	0	0.546 7696	7 1144	10368	0.781 0139	4 2655	6115	0.338 7540	1 8501	2659
19	12	0.539 6552	7 1534		0.785 2794	4 2095		0.340 6041	1 8260	
20	0	0.532 5018	7 1915	10481	0.789 4889	4 1534	5956	0.342 4301	1 8016	2590
20	12	0.525 3103	7 2293		0.793 6423	4 0969		0.344 2317	1 7771	
21	0	+0.518 0810	7 2666	+10591	+0.797 7392	4 0402	−5795	+0.346 0088	1 7526	−2520
21	12	0.510 8144	7 3035		0.801 7794	3 9832		0.347 7614	1 7279	
22	0	0.503 5109	7 3396	10697	0.805 7626	3 9258	5632	0.349 4893	1 7030	2450
22	12	0.496 1713	7 3754		0.809 6884	3 8681		0.351 1923	1 6780	
23	0	0.488 7959	7 4107	+10801	0.813 5565	3 8102	−5468	0.352 8703	1 6529	−2378
23	12	+0.481 3852			+0.817 3667			+0.354 5232		

Welt-Zeit		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
		Mittleres Äquinoktium 1930.0								
1930										
Mai 23	12^h	+0.481 3852	7 4454		+0.817 3667	3 7519		+0.354 5232	1 6276	
24	0	0.473 9398	7 4794	+10901	0.821 1186	3 6934	−5302	0.356 1508	1 6023	−2306
24	12	0.466 4604	7 5131		0.824 8120	3 6345		0.357 7531	1 5768	
25	0	0.458 9473	7 5461	10999	0.828 4465	3 5754	5134	0.359 3299	1 5512	2233
25	12	0.451 4012	7 5786		0.832 0219	3 5160		0.360 8811	1 5254	
26	0	0.443 8226	7 6105	11093	0.835 5379	3 4564	4965	0.362 4065	1 4995	2159
26	12	+0.436 2121	7 6418		+0.838 9943	3 3964		+0.363 9060	1 4735	
27	0	0.428 5703	7 6726	+11184	0.842 3907	3 3363	−4795	0.365 3795	1 4474	−2085
27	12	0.420 8977	7 7029		0.845 7270	3 2758		0.366 8269	1 4212	
28	0	0.413 1948	7 7323	11272	0.849 0028	3 2152	4623	0.368 2481	1 3948	2010
28	12	0.405 4625	7 7613		0.852 2180	3 1542		0.369 6429	1 3684	
29	0	0.397 7012	7 7896	11357	0.855 3722	3 0930	4450	0.371 0113	1 3418	1935
29	12	+0.389 9116	7 8174		+0.858 4652	3 0317		+0.372 3531	1 3151	
30	0	0.382 0942	7 8444	+11438	0.861 4969	2 9701	−4276	0.373 6682	1 2884	−1859
30	12	0.374 2498	7 8711		0.864 4670	2 9083		0.374 9566	1 2616	
31	0	0.366 3787	7 8969	11516	0.867 3753	2 8465	4100	0.376 2182	1 2346	1783
31	12	0.358 4818	7 9221		0.870 2218	2 7844		0.377 4528	1 2077	
Juni 1	0	0.350 5597	7 9467	11591	0.873 0062	2 7221	3923	0.378 6605	1 1807	1706
1	12	+0.342 6130	7 9708		+0.875 7283	2 6596		+0.379 8412	1 1535	
2	0	0.334 6422	7 9941	+11662	0.878 3879	2 5971	−3746	0.380 9947	1 1264	−1629
2	12	0.326 6481	8 0170		0.880 9850	2 5344		0.382 1211	1 0991	
3	0	0.318 6311	8 0392	11731	0.883 5194	2 4716	3567	0.383 2202	1 0719	1551
3	12	0.310 5919	8 0607		0.885 9910	2 4087		0.384 2921	1 0445	
4	0	0.302 5312	8 0818	11796	0.888 3997	2 3457	3387	0.385 3366	1 0172	1473
4	12	+0.294 4494	8 1023		+0.890 7454	2 2825		+0.386 3538	9897	
5	0	0.286 3471	8 1220	+11858	0.893 0279	2 2192	−3206	0.387 3435	9623	−1394
5	12	0.278 2251	8 1413		0.895 2471	2 1559		0.388 3058	9348	
6	0	0.270 0838	8 1600	11916	0.897 4030	2 0925	3024	0.389 2406	9072	1315
6	12	0.261 9238	8 1783		0.899 4955	2 0289		0.390 1478	8797	
7	0	0.253 7455	8 1957	11971	0.901 5244	1 9653	2842	0.391 0275	8520	1236
7	12	+0.245 5498	8 2128		+0.903 4897	1 9015		+0.391 8795	8244	
8	0	0.237 3370	8 2292	+12023	0.905 3912	1 8378	−2658	0.392 7039	7967	−1156
8	12	0.229 1078	8 2452		0.907 2290	1 7738		0.393 5006	7690	
9	0	0.220 8626	8 2605	12071	0.909 0028	1 7098	2474	0.394 2696	7412	1076
9	12	0.212 6021	8 2754		0.910 7126	1 6457		0.395 0108	7135	
10	0	0.204 3267	8 2895	12116	0.912 3583	1 5816	2289	0.395 7243	6857	996
10	12	+0.196 0372	8 3034		+0.913 9399	1 5173		+0.396 4100	6579	
11	0	0.187 7338	8 3164	+12157	0.915 4572	1 4530	−2104	0.397 0679	6300	− 915
11	12	0.179 4174	8 3292		0.916 9102	1 3885		0.397 6979	6020	
12	0	0.171 0882	8 3412	12195	0.918 2987	1 3239	1918	0.398 2999	5741	834
12	12	0.162 7470	8 3528		0.919 6226	1 2593		0.398 8740	5461	
13	0	+0.154 3942		+12229	+0.920 8819		−1732	+0.399 4201		− 753

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1930										
Juni 13	0	+0.154 3942	8 3636	+12229	+0.920 8819	1 1947	−1732	+0.399 4201	5180	−753
13	12	0.146 0306	8 3742		0.922 0766	1 1298		0.399 9381	4899	
14	0	0.137 6564	8 3840	12260	0.923 2064	1 0649	1545	0.400 4280	4619	672
14	12	0.129 2724	8 3933		0.924 2713	1 0000		0.400 8899	4337	
15	0	0.120 8791	8 4020	12287	0.925 2713	9349	1358	0.401 3236	4056	591
15	12	0.112 4771	8 4103		0.926 2062	8698		0.401 7292	3773	
16	0	+0.104 0668	8 4179	+12311	+0.927 0760	8046	−1170	+0.402 1065	3491	−509
16	12	0.095 6489	8 4249		0.927 8806	7394		0.402 4556	3208	
17	0	0.087 2240	8 4312	12332	0.928 6200	6740	982	0.402 7764	2926	427
17	12	0.078 7928	8 4373		0.929 2940	6085		0.403 0690	2641	
18	0	0.070 3555	8 4426	12349	0.929 9025	5432	793	0.403 3331	2358	345
18	12	0.061 9129	8 4473		0.930 4457	4775		0.403 5689	2074	
19	0	+0.053 4656	8 4514	+12363	+0.930 9232	4120	− 604	+0.403 7763	1790	−263
19	12	0.045 0142	8 4550		0.931 3352	3463		0.403 9553	1505	
20	0	0.036 5592	8 4580	12373	0.931 6815	2806	415	0.404 1058	1219	181
20	12	0.028 1012	8 4603		0.931 9621	2148		0.404 2277	935	
21	0	0.019 6409	8 4621	12380	0.932 1769	1490	227	0.404 3212	651	99
21	12	0.011 1788	8 4633		0.932 3259	831		0.404 3863	363	
22	0	+0.002 7155	8 4638	+12383	+0.932 4090	173	− 38	+0.404 4226	79	− 16
22	12	−0.005 7483	8 4638		0.932 4263	486		0.404 4305	208	
23	0	0.014 2121	8 4631	12383	0.932 3777	1146	+ 152	0.404 4097	493	+ 66
23	12	0.022 6752	8 4617		0.932 2631	1806		0.404 3604	781	
24	0	0.031 1369	8 4599	12379	0.932 0825	2466	341	0.404 2823	1066	148
24	12	0.039 5968	8 4571		0.931 8359	3126		0.404 1757	1354	
25	0	−0.048 0539	8 4540	+12371	+0.931 5233	3785	+ 530	+0.404 0403	1639	+230
25	12	0.056 5079	8 4499		0.931 1448	4445		0.403 8764	1926	
26	0	0.064 9578	8 4455	12360	0.930 7003	5105	719	0.403 6838	2212	312
26	12	0.073 4033	8 4404		0.930 1898	5764		0.403 4626	2499	
27	0	0.081 8437	8 4345	12346	0.929 6134	6422	907	0.403 2127	2785	394
27	12	0.090 2782	8 4279		0.928 9712	7081		0.402 9342	3071	
28	0	−0.098 7061	8 4208	+12328	+0.928 2631	7738	+1096	+0.402 6271	3356	+476
28	12	0.107 1269	8 4130		0.927 4893	8395		0.402 2915	3641	
29	0	0.115 5399	8 4046	12307	0.926 6498	9049	1284	0.401 9274	3926	558
29	12	0.123 9445	8 3954		0.925 7449	9703		0.401 5348	4210	
30	0	0.132 3399	8 3859	12282	0.924 7746	1 0357	1472	0.401 1138	4494	640
30	12	0.140 7258	8 3755		0.923 7389	1 1009		0.400 6644	4777	
Juli 1	0	−0.149 1013	8 3646	+12254	+0.922 6380	1 1660	+1659	+0.400 1867	5060	+721
1	12	0.157 4659	8 3530		0.921 4720	1 2311		0.399 6807	5342	
2	0	0.165 8189	8 3410	12222	0.920 2409	1 2958	1846	0.399 1465	5622	802
2	12	0.174 1599	8 3281		0.918 9451	1 3604		0.398 5843	5905	
3	0	0.182 4880	8 3150	+12187	0.917 5847	1 4249	+2032	0.397 9938	6184	+883
3	12	−0.190 8030			+0.916 1598			+0.397 3754		

Welt-Zeit		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
		Mittleres Äquinoktium 1930.0								
1930										
Juli 3	12	−0.190 8030	8 3012		+0.916 1598	1 4893		+0.397 3754	6464	
4	0	0.199 1042	8 2867	+12149	0.914 6705	1 5537	+2218	0.396 7290	6742	+ 964
4	12	0.207 3909	8 2718		0.913 1168	1 6177		0.396 0548	7020	
5	0	0.215 6627	8 2562	12107	0.911 4991	1 6816	2403	0.395 3528	7297	1045
5	12	0.223 9189	8 2402		0.909 8175	1 7455		0.394 6231	7575	
6	0	0.232 1591	8 2236	12062	0.908 0720	1 8090	2588	0.393 8656	7850	1125
6	12	−0.240 3827	8 2064		+0.906 2630	1 8727		+0.393 0806	8126	
7	0	0.248 5891	8 1887	+12013	0.904 3903	1 9359	+2771	0.392 2680	8399	+1205
7	12	0.256 7778	8 1704		0.902 4544	1 9992		0.391 4281	8674	
8	0	0.264 9482	8 1517	11961	0.900 4552	2 0622	2954	0.390 5607	8947	1285
8	12	0.273 0999	8 1324		0.898 3930	2 1252		0.389 6660	9220	
9	0	0.281 2323	8 1126	11905	0.896 2678	2 1879	3136	0.388 7440	9492	1364
9	12	−0.289 3449	8 0923		+0.894 0799	2 2505		+0.387 7948	9763	
10	0	0.297 4372	8 0713	+11846	0.891 8294	2 3129	+3317	0.386 8185	1 0034	+1443
10	12	0.305 5085	8 0499		0.889 5165	2 3754		0.385 8151	1 0303	
11	0	0.313 5584	8 0279	11784	0.887 1411	2 4375	3497	0.384 7848	1 0573	1521
11	12	0.321 5863	8 0054		0.884 7036	2 4995		0.383 7275	1 0841	
12	0	0.329 5917	7 9825	11718	0.882 2041	2 5613	3676	0.382 6434	1 1110	1599
12	12	−0.337 5742	7 9589		+0.879 6428	2 6230		+0.381 5324	1 1376	
13	0	0.345 5331	7 9349	+11650	0.877 0198	2 6846	+3854	0.380 3948	1 1643	+1676
13	12	0.353 4680	7 9101		0.874 3352	2 7460		0.379 2305	1 1909	
14	0	0.361 3781	7 8851	11578	0.871 5892	2 8071	4031	0.378 0396	1 2175	1753
14	12	0.369 2632	7 8594		0.868 7821	2 8683		0.376 8221	1 2439	
15	0	0.377 1226	7 8331	11503	0.865 9138	2 9291	4207	0.375 5782	1 2702	1830
15	12	−0.384 9557	7 8063		+0.862 9847	2 9898		+0.374 3080	1 2966	
16	0	0.392 7620	7 7790	+11424	0.859 9949	3 0504	+4382	0.373 0114	1 3228	+1906
16	12	0.400 5410	7 7511		0.856 9445	3 1108		0.371 6886	1 3490	
17	0	0.408 2921	7 7229	11343	0.853 8337	3 1709	4555	0.370 3396	1 3750	1981
17	12	0.416 0150	7 6938		0.850 6628	3 2310		0.368 9646	1 4011	
18	0	0.423 7088	7 6644	11258	0.847 4318	3 2907	4728	0.367 5635	1 4270	2056
18	12	−0.431 3732	7 6344		+0.844 1411	3 3504		+0.366 1365	1 4529	
19	0	0.439 0076	7 6038	+11170	0.840 7907	3 4097	+4899	0.364 6836	1 4786	+2130
19	12	0.446 6114	7 5725		0.837 3810	3 4690		0.363 2050	1 5043	
20	0	0.454 1839	7 5409	11078	0.833 9120	3 5281	5069	0.361 7007	1 5300	2204
20	12	0.461 7248	7 5086		0.830 3839	3 5869		0.360 1707	1 5555	
21	0	0.469 2334	7 4759	10984	0.826 7970	3 6455	5237	0.358 6152	1 5809	2277
21	12	−0.476 7093	7 4424		+0.823 1515	3 7039		+0.357 0343	1 6062	
22	0	0.484 1517	7 4085	+10886	0.819 4476	3 7621	+5404	0.355 4281	1 6315	+2350
22	12	0.491 5602	7 3738		0.815 6855	3 8200		0.353 7966	1 6566	
23	0	0.498 9340	7 3388	10786	0.811 8655	3 8776	5569	0.352 1400	1 6817	2422
23	12	0.506 2728	7 3030		0.807 9879	3 9351		0.350 4583	1 7067	
24	0	−0.513 5758		+10682	+0.804 0528		+5732	+0.348 7516		+2493

Welt-Zeit		Mittleres Äquinoktium 1930.0 X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1930										
Juli 24	0h	−0.513 5758	7 2668	+10682	+0.804 0528	3 9922	+5732	+0.348 7516	1 7315	+2493
24	12	0.520 8426	7 2299		0.800 0606	4 0491		0.347 0201	1 7562	
25	0	0.528 0725	7 1925	10575	0.796 0115	4 1056	5894	0.345 2639	1 7807	2564
25	12	0.535 2650	7 1545		0.791 9059	4 1620		0.343 4832	1 8052	
26	0	0.542 4195	7 1159	10466	0.787 7439	4 2179	6055	0.341 6780	1 8296	2633
26	12	0.549 5354	7 0767		0.783 5260	4 2736		0.339 8484	1 8537	
27	0	−0.556 6121	7 0372	+10353	+0.779 2524	4 3289	+6213	+0.337 9947	1 8778	+2702
27	12	0.563 6493	6 9969		0.774 9235	4 3839		0.336 1169	1 9017	
28	0	0.570 6462	6 9562	10238	0.770 5396	4 4384	6370	0.334 2152	1 9254	2771
28	12	0.577 6024	6 9149		0.766 1012	4 4928		0.332 2898	1 9490	
29	0	0.584 5173	6 8731	10119	0.761 6084	4 5466	6525	0.330 3408	1 9722	2838
29	12	0.591 3904	6 8309		0.757 0618	4 6002		0.328 3686	1 9956	
30	0	−0.598 2213	6 7881	+ 9998	+0.752 4616	4 6533	+6678	+0.326 3730	2 0187	+2904
30	12	0.605 0094	6 7448		0.747 8083	4 7062		0.324 3543	2 0417	
31	0	0.611 7542	6 7013	9873	0.743 1021	4 7586	6830	0.322 3126	2 0643	2970
31	12	0.618 4555	6 6570		0.738 3435	4 8107		0.320 2483	2 0869	
Aug. 1	0	0.625 1125	6 6125	9746	0.733 5328	4 8623	6979	0.318 1614	2 1094	3035
1	12	0.631 7250	6 5674		0.728 6705	4 9137		0.316 0520	2 1316	
2	0	−0.638 2924	6 5220	+ 9617	+0.723 7568	4 9647	+7127	+0.313 9204	2 1537	+3099
2	12	0.644 8144	6 4760		0.718 7921	5 0153		0.311 7667	2 1756	
3	0	0.651 2904	6 4296	9484	0.713 7768	5 0655	7272	0.309 5911	2 1974	3162
3	12	0.657 7200	6 3829		0.708 7113	5 1154		0.307 3937	2 2190	
4	0	0.664 1029	6 3357	9349	0.703 5959	5 1649	7415	0.305 1747	2 2405	3224
4	12	0.670 4386	6 2881		0.698 4310	5 2141		0.302 9342	2 2618	
5	0	−0.676 7267	6 2402	+ 9211	+0.693 2169	5 2628	+7556	+0.300 6724	2 2829	+3286
5	12	0.682 9669	6 1916		0.687 9541	5 3114		0.298 3895	2 3039	
6	0	0.689 1585	6 1429	9071	0.682 6427	5 3594	7695	0.296 0856	2 3248	3346
6	12	0.695 3014	6 0936		0.677 2833	5 4071		0.293 7608	2 3454	
7	0	0.701 3950	6 0441	8928	0.671 8762	5 4544	7832	0.291 4154	2 3658	3406
7	12	0.707 4391	5 9939		0.666 4218	5 5014		0.289 0496	2 3862	
8	0	−0.713 4330	5 9434	+ 8783	+0.660 9204	5 5481	+7966	+0.286 6634	2 4063	+3464
8	12	0.719 3764	5 8925		0.655 3723	5 5944		0.284 2571	2 4265	
9	0	0.725 2689	5 8414	8635	0.649 7779	5 6402	8099	0.281 8306	2 4463	3522
9	12	0.731 1103	5 7897		0.644 1377	5 6857		0.279 3843	2 4661	
10	0	0.736 9000	5 7376	8485	0.638 4520	5 7309	8229	0.276 9182	2 4856	3578
10	12	0.742 6376	5 6851		0.632 7211	5 7758		0.274 4326	2 5049	
11	0	−0.748 3227	5 6323	+ 8332	+0.626 9453	5 8202	+8357	+0.271 9277	2 5242	+3634
11	12	0.753 9550	5 5790		0.621 1251	5 8642		0.269 4035	2 5434	
12	0	0.759 5340	5 5254	8177	0.615 2609	5 9079	8482	0.266 8601	2 5622	3688
12	12	0.765 0594	5 4713		0.609 3530	5 9512		0.264 2979	2 5810	
13	0	0.770 5307	5 4168	+ 8019	0.603 4018	5 9941	+8605	0.261 7169	2 5995	+3742
13	12	−0.775 9475			+0.597 4077			+0.259 1174		

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1930										
Aug. 13	12h	−0.775 9475	5 3621		+0.597 4077	6 0367		+0.259 1174	2 6181	
14	0	0.781 3096	5 3068	+7859	0.591 3710	6 0789	+ 8726	0.256 4993	2 6363	+3795
14	12	0.786 6164	5 2510		0.585 2921	6 1206		0.253 8630	2 6545	
15	0	0.791 8674	5 1951	7698	0.579 1715	6 1620	8844	0.251 2085	2 6723	3846
15	12	0.797 0625	5 1387		0.573 0095	6 2030		0.248 5362	2 6902	
16	0	0.802 2012	5 0817	7534	0.566 8065	6 2435	8959	0.245 8460	2 7077	3896
16	12	−0.807 2829	5 0246		+0.560 5630	6 2839		+0.243 1383	2 7253	
17	0	0.812 3075	4 9669	+7367	0.554 2791	6 3236	+ 9072	0.240 4130	2 7424	+3945
17	12	0.817 2744	4 9088		0.547 9555	6 3630		0.237 6706	2 7596	
18	0	0.822 1832	4 8505	7199	0.541 5925	6 4019	9182	0.234 9110	2 7765	3993
18	12	0.827 0337	4 7915		0.535 1906	6 4404		0.232 1345	2 7933	
19	0	0.831 8252	4 7322	7029	0.528 7502	6 4786	9290	0.229 3412	2 8098	4040
19	12	−0.836 5574	4 6727		+0.522 2716	6 5164		+0.226 5314	2 8263	
20	0	0.841 2301	4 6125	+6856	0.515 7552	6 5534	+ 9395	0.223 7051	2 8424	+4086
20	12	0.845 8426	4 5521		0.509 2018	6 5904		0.220 8627	2 8583	
21	0	0.850 3947	4 4912	6682	0.502 6114	6 6265	9497	0.218 0044	2 8742	4130
21	12	0.854 8859	4 4299		0.495 9849	6 6624		0.215 1302	2 8898	
22	0	0.859 3158	4 3683	6505	0.489 3225	6 6977	9597	0.212 2404	2 9051	4174
22	12	−0.863 6841	4 3062		+0.482 6248	6 7327		+0.209 3353	2 9203	
23	0	0.867 9903	4 2438	+6327	0.475 8921	6 7670	+ 9694	0.206 4150	2 9352	+4216
23	12	0.872 2341	4 1810		0.469 1251	6 8008		0.203 4798	2 9501	
24	0	0.876 4151	4 1179	6147	0.462 3243	6 8341	9788	0.200 5297	2 9644	4257
24	12	0.880 5330	4 0544		0.455 4902	6 8669		0.197 5653	2 9789	
25	0	0.884 5874	3 9905	5965	0.448 6233	6 8992	9880	0.194 5864	2 9927	4296
25	12	−0.888 5779	3 9264		+0.441 7241	6 9310		+0.191 5937	3 0065	
26	0	0.892 5043	3 8620	+5781	0.434 7931	6 9621	+ 9968	0.188 5872	3 0200	+4335
26	12	0.896 3663	3 7972		0.427 8310	6 9927		0.185 5672	3 0334	
27	0	0.900 1635	3 7322	5596	0.420 8383	7 0229	10054	0.182 5338	3 0464	4372
27	12	0.903 8957	3 6669		0.413 8154	7 0524		0.179 4874	3 0592	
28	0	0.907 5626	3 6013	5409	0.406 7630	7 0814	10137	0.176 4282	3 0718	4408
28	12	−0.911 1639	3 5355		+0.399 6816	7 1099		+0.173 3564	3 0843	
29	0	0.914 6994	3 4695	+5220	0.392 5717	7 1378	+10217	0.170 2721	3 0963	+4443
29	12	0.918 1689	3 4033		0.385 4339	7 1653		0.167 1758	3 1083	
30	0	0.921 5722	3 3368	5030	0.378 2686	7 1921	10294	0.164 0675	3 1198	4476
30	12	0.924 9090	3 2701		0.371 0765	7 2185		0.160 9477	3 1312	
31	0	0.928 1791	3 2031	4839	0.363 8580	7 2444	10368	0.157 8165	3 1424	4508
31	12	−0.931 3822	3 1359		+0.356 6136	7 2696		+0.154 6741	3 1533	
Sept. 1	0	0.934 5181	3 0686	+4646	0.349 3440	7 2944	+10439	0.151 5208	3 1641	+4539
1	12	0.937 5867	3 0010		0.342 0496	7 3187		0.148 3567	3 1747	
2	0	0.940 5877	2 9334	4452	0.334 7309	7 3425	10507	0.145 1820	3 1848	4569
2	12	0.943 5211	2 8654		0.327 3884	7 3659		0.141 9972	3 1950	
3	0	−0.946 3865		+4256	+0.320 0225		+10572	+0.138 8022		+4597

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1930	h									
Sept. 3	0	−0.946 3865	2 7972	+4256	+0.320 0225	7 3886	+10572	+0.138 8022	3 2047	+4597
3	12	0.949 1837	2 7288		0.312 6339	7 4108		0.135 5975	3 2144	
4	0	0.951 9125	2 6604	4060	0.305 2231	7 4325	10634	0.132 3831	3 2237	4624
4	12	0.954 5729	2 5917		0.297 7906	7 4537		0.129 1594	3 2330	
5	0	0.957 1646	2 5229	3862	0.290 3369	7 4744	10692	0.125 9264	3 2418	4650
5	12	0.959 6875	2 4537		0.282 8625	7 4947		0.122 6846	3 2507	
6	0	−0.962 1412	2 3846	+3664	+0.275 3678	7 5143	+10748	+0.119 4339	3 2590	+4674
6	12	0.964 5258	2 3151		0.267 8535	7 5336		0.116 1749	3 2674	
7	0	0.966 8409	2 2454	3464	0.260 3199	7 5522	10801	0.112 9075	3 2755	4697
7	12	0.969 0863	2 1757		0.252 7677	7 5703		0.109 6320	3 2834	
8	0	0.971 2620	2 1059	3263	0.245 1974	7 5880	10851	0.106 3486	3 2909	4719
8	12	0.973 3679	2 0357		0.237 6094	7 6052		0.103 0577	3 2984	
9	0	−0.975 4036	1 9655	+3062	+0.230 0042	7 6217	+10897	+0.099 7593	3 3055	+4739
9	12	0.977 3691	1 8949		0.222 3825	7 6380		0.096 4538	3 3125	
10	0	0.979 2640	1 8244	2859	0.214 7445	7 6534	10940	0.093 1413	3 3194	4758
10	12	0.981 0884	1 7537		0.207 0911	7 6687		0.089 8219	3 3259	
11	0	0.982 8421	1 6828	2656	0.199 4224	7 6832	10980	0.086 4960	3 3321	4775
11	12	0.984 5249	1 6116		0.191 7392	7 6973		0.083 1639	3 3383	
12	0	−0.986 1365	1 5403	+2452	+0.184 0419	7 7108	+11017	+0.079 8256	3 3441	+4791
12	12	0.987 6768	1 4689		0.176 3311	7 7239		0.076 4815	3 3498	
13	0	0.989 1457	1 3974	2247	0.168 6072	7 7363	11051	0.073 1317	3 3553	4806
13	12	0.990 5431	1 3256		0.160 8709	7 7484		0.069 7764	3 3604	
14	0	0.991 8687	1 2538	2041	0.153 1225	7 7597	11081	0.066 4160	3 3654	4819
14	12	0.993 1225	1 1817		0.145 3628	7 7707		0.063 0506	3 3702	
15	0	−0.994 3042	1 1094	+1835	+0.137 5921	7 7810	+11109	+0.059 6804	3 3748	+4831
15	12	0.995 4136	1 0371		0.129 8111	7 7908		0.056 3056	3 3790	
16	0	0.996 4507	9647	1628	0.122 0203	7 8000	11133	0.052 9266	3 3830	4841
16	12	0.997 4154	8919		0.114 2203	7 8088		0.049 5436	3 3869	
17	0	0.998 3073	8191	1421	0.106 4115	7 8170	11154	0.046 1567	3 3905	4850
17	12	0.999 1264	7461		0.098 5945	7 8246		0.042 7662	3 3938	
18	0	−0.999 8725	6731	+1213	+0.090 7699	7 8314	+11171	+0.039 3724	3 3969	+4858
18	12	1.000 5456	5999		0.082 9385	7 8380		0.035 9755	3 3996	
19	0	1.001 1455	5265	1005	0.075 1005	7 8436	11186	0.032 5759	3 4022	4864
19	12	1.001 6720	4529		0.067 2569	7 8490		0.029 1737	3 4046	
20	0	1.002 1249	3795	796	0.059 4079	7 8534	11197	0.025 7691	3 4065	4869
20	12	1.002 5044	3059		0.051 5545	7 8575		0.022 3626	3 4084	
21	0	−1.002 8103	2321	+ 588	+0.043 6970	7 8608	+11204	+0.018 9542	3 4098	+4872
21	12	1.003 0424	1582		0.035 8362	7 8635		0.015 5444	3 4111	
22	0	1.003 2006	844	379	0.027 9727	7 8657	11209	0.012 1333	3 4119	4874
22	12	1.003 2850	105		0.020 1070	7 8671		0.008 7214	3 4127	
23	0	1.003 2955	635	+ 170	0.012 2399	7 8680	+11210	0.005 3087	3 4130	+4875
23	12	−1.003 2320			+0.004 3719			+0.001 8957		

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1930 Sept. 23	12h	−1.003 2320	1373		+0.004 3719	7 8682		+0.001 8957	3 4131	
24	0	1.003 0947	2113	− 39	−0.003 4963	7 8678	+11208	−0.001 5174	3 4130	+4874
24	12	1.002 8834	2854		0.011 3641	7 8667		0.004 9304	3 4124	
25	0	1.002 5980	3592	248	0.019 2308	7 8652	11203	0.008 3428	3 4118	4872
25	12	1.002 2388	4330		0.027 0960	7 8628		0.011 7546	3 4108	
26	0	1.001 8058	5069	457	0.034 9588	7 8600	11194	0.015 1654	3 4095	4868
26	12	−1.001 2989	5807		−0.042 8188	7 8566		−0.018 5749	3 4080	
27	0	1.000 7182	6545	− 666	0.050 6754	7 8526	+11182	0.021 9829	3 4062	+4863
27	12	1.000 0637	7281		0.058 5280	7 8478		0.025 3891	3 4042	
28	0	0.999 3356	8017	875	0.066 3758	7 8426	11166	0.028 7933	3 4019	4856
28	12	0.998 5339	8752		0.074 2184	7 8368		0.032 1952	3 3993	
29	0	0.997 6587	9487	1083	0.082 0552	7 8304	11148	0.035 5945	3 3965	4848
29	12	−0.996 7100	1 0220		−0.089 8856	7 8234		−0.038 9910	3 3935	
30	0	0.995 6880	1 0953	−1291	0.097 7090	7 8159	+11126	0.042 3845	3 3901	+4838
30	12	0.994 5927	1 1686		0.105 5249	7 8078		0.045 7746	3 3866	
Okt. 1	0	0.993 4241	1 2416	1498	0.113 3327	7 7992	11100	0.049 1612	3 3828	4827
1	12	0.992 1825	1 3146		0.121 1319	7 7898		0.052 5440	3 3787	
2	0	0.990 8679	1 3875	1705	0.128 9217	7 7802	11072	0.055 9227	3 3745	4815
2	12	−0.989 4804	1 4604		−0.136 7019	7 7698		−0.059 2972	3 3699	
3	0	0.988 0200	1 5331	−1911	0.144 4717	7 7589	+11040	0.062 6671	3 3653	+4801
3	12	0.986 4869	1 6057		0.152 2306	7 7475		0.066 0324	3 3602	
4	0	0.984 8812	1 6782	2117	0.159 9781	7 7355	11005	0.069 3926	3 3549	4786
4	12	0.983 2030	1 7506		0.167 7136	7 7229		0.072 7475	3 3494	
5	0	0.981 4524	1 8229	2322	0.175 4365	7 7099	10967	0.076 0969	3 3439	4769
5	12	−0.979 6295	1 8951		−0.183 1464	7 6961		−0.079 4408	3 3379	
6	0	0.977 7344	1 9671	−2527	0.190 8425	7 6820	+10926	0.082 7787	3 3317	+4751
6	12	0.975 7673	2 0390		0.198 5245	7 6674		0.086 1104	3 3253	
7	0	0.973 7283	2 1108	2731	0.206 1919	7 6521	10881	0.089 4357	3 3187	4732
7	12	0.971 6175	2 1825		0.213 8440	7 6363		0.092 7544	3 3118	
8	0	0.969 4350	2 2541	2934	0.221 4803	7 6200	10833	0.096 0662	3 3047	4711
8	12	−0.967 1809	2 3254		−0.229 1003	7 6031		−0.099 3709	3 2974	
9	0	0.964 8555	2 3968	−3136	0.236 7034	7 5856	+10782	0.102 6683	3 2898	+4689
9	12	0.962 4587	2 4680		0.244 2890	7 5677		0.105 9581	3 2820	
10	0	0.959 9907	2 5389	3338	0.251 8567	7 5493	10728	0.109 2401	3 2742	4665
10	12	0.957 4518	2 6099		0.259 4060	7 5302		0.112 5143	3 2658	
11	0	0.954 8419	2 6808	3538	0.266 9362	7 5107	10671	0.115 7801	3 2574	4640
11	12	−0.952 1611	2 7513		−0.274 4469	7 4905		−0.119 0375	3 2486	
12	0	0.949 4098	2 8218	−3737	0.281 9374	7 4700	+10610	0.122 2861	3 2398	+4614
12	12	0.946 5880	2 8923		0.289 4074	7 4487		0.125 5259	3 2305	
13	0	0.943 6957	2 9625	3935	0.296 8561	7 4270	10546	0.128 7564	3 2213	4586
13	12	0.940 7332	3 0326		0.304 2831	7 4047		0.131 9777	3 2116	
14	0	−0.937 7006		−4132	−0.311 6878		+10480	−0.135 1893		+4557

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1930 Okt. 14	0[h]	−0.937 7006	3 1026	−4132	−0.311 6878	7 3818	+10480	−0.135 1893	3 2017	+4557
14	12	0.934 5980	3 1724		0.319 0696	7 3584		0.138 3910	3 1916	
15	0	0.931 4256	3 2421	4328	0.326 4280	7 3343	10410	0.141 5826	3 1812	4527
15	12	0.928 1835	3 3116		0.333 7623	7 3098		0.144 7638	3 1705	
16	0	0.924 8719	3 3809	4523	0.341 0721	7 2847	10336	0.147 9343	3 1598	4495
16	12	0.921 4910	3 4500		0.348 3568	7 2589		0.151 0941	3 1486	
17	0	−0.918 0410	3 5189	−4716	−0.355 6157	7 2326	+10260	−0.154 2427	3 1373	+4462
17	12	0.914 5221	3 5877		0.362 8483	7 2057		0.157 3800	3 1256	
18	0	0.910 9344	3 6563	4908	0.370 0540	7 1782	10181	0.160 5056	3 1137	4427
18	12	0.907 2781	3 7246		0.377 2322	7 1500		0.163 6193	3 1015	
19	0	0.903 5535	3 7926	5098	0.384 3822	7 1214	10098	0.166 7208	3 0892	4391
19	12	0.899 7609	3 8606		0.391 5036	7 0921		0.169 8100	3 0764	
20	0	−0.895 9003	3 9281	−5287	−0.398 5957	7 0624	+10013	−0.172 8864	3 0636	+4354
20	12	0.891 9722	3 9955		0.405 6581	7 0318		0.175 9500	3 0503	
21	0	0.887 9767	4 0625	5474	0.412 6899	7 0007	9924	0.179 0003	3 0369	4316
21	12	0.883 9142	4 1293		0.419 6906	6 9691		0.182 0372	3 0230	
22	0	0.879 7849	4 1956	5660	0.426 6597	6 9368	9833	0.185 0602	3 0092	4276
22	12	0.875 5893	4 2618		0.433 5965	6 9040		0.188 0694	2 9949	
23	0	−0.871 3275	4 3275	−5844	−0.440 5005	6 8707	+ 9738	−0.191 0643	2 9805	+4235
23	12	0.867 0000	4 3931		0.447 3712	6 8367		0.194 0448	2 9657	
24	0	0.862 6069	4 4581	6026	0.454 2079	6 8024	9641	0.197 0105	2 9507	4192
24	12	0.858 1488	4 5229		0.461 0103	6 7672		0.199 9612	2 9354	
25	0	0.853 6259	4 5872	6206	0.467 7775	6 7317	9541	0.202 8966	2 9201	4149
25	12	0.849 0387	4 6513		0.474 5092	6 6956		0.205 8167	2 9043	
26	0	−0.844 3874	4 7148	−6384	−0.481 2048	6 6591	+ 9438	−0.208 7210	2 8885	+4104
26	12	0.839 6726	4 7783		0.487 8639	6 6220		0.211 6095	2 8723	
27	0	0.834 8943	4 8411	6561	0.494 4859	6 5843	9332	0.214 4818	2 8560	4058
27	12	0.830 0532	4 9036		0.501 0702	6 5462		0.217 3378	2 8393	
28	0	0.825 1496	4 9656	6736	0.507 6164	6 5076	9223	0.220 1771	2 8227	4011
28	12	0.820 1840	5 0274		0.514 1240	6 4684		0.222 9998	2 8056	
29	0	−0.815 1566	5 0888	−6908	−0.520 5924	6 4289	+ 9112	−0.225 8054	2 7884	+3962
29	12	0.810 0678	5 1498		0.527 0213	6 3889		0.228 5938	2 7710	
30	0	0.804 9180	5 2103	7078	0.533 4102	6 3482	8998	0.231 3648	2 7534	3913
30	12	0.799 7077	5 2705		0.539 7584	6 3073		0.234 1182	2 7355	
31	0	0.794 4372	5 3303	7246	0.546 0657	6 2657	8881	0.236 8537	2 7175	3862
31	12	0.789 1069	5 3897		0.552 3314	6 2238		0.239 5712	2 6993	
Nov. 1	0	−0.783 7172	5 4486	−7412	−0.558 5552	6 1814	+ 8761	−0.242 2705	2 6809	+3810
1	12	0.778 2686	5 5073		0.564 7366	6 1385		0.244 9514	2 6622	
2	0	0.772 7613	5 5654	7576	0.570 8751	6 0953	8639	0.247 6136	2 6435	3757
2	12	0.767 1959	5 6232		0.576 9704	6 0515		0.250 2571	2 6244	
3	0	0.761 5727	5 6805	−7737	0.583 0219	6 0073	+ 8514	0.252 8815	2 6054	+3703
3	12	−0.755 8922			−0.589 0292			−0.255 4869		

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1930 Nov. 3	12h	−0.755 8922	5 7374		−0.589 0292	5 9626		−0.255 4869	2 5859	
4	0	0.750 1548	5 7941	− 7896	0.594 9918	5 9177	+8386	0.258 0728	2 5663	+3647
4	12	0.744 3607	5 8501		0.600 9095	5 8721		0.260 6391	2 5466	
5	0	0.738 5106	5 9058	8053	0.606 7816	5 8262	8256	0.263 1857	2 5267	3591
5	12	0.732 6048	5 9612		0.612 6078	5 7798		0.265 7124	2 5066	
6	0	0.726 6436	6 0160	8207	0.618 3876	5 7331	8123	0.268 2190	2 4863	3533
6	12	−0.720 6276	6 0705		−0.624 1207	5 6860		−0.270 7053	2 4659	
7	0	0.714 5571	6 1245	− 8359	0.629 8067	5 6383	+7988	0.273 1712	2 4452	+3474
7	12	0.708 4326	6 1783		0.635 4450	5 5902		0.275 6164	2 4245	
8	0	0.702 2543	6 2315	8508	0.641 0352	5 5420	7851	0.278 0409	2 4034	3414
8	12	0.696 0228	6 2844		0.646 5772	5 4929		0.280 4443	2 3823	
9	0	0.689 7384	6 3368	8655	0.652 0701	5 4437	7711	0.282 8266	2 3609	3354
9	12	−0.683 4016	6 3887		−0.657 5138	5 3940		−0.285 1875	2 3393	
10	0	0.677 0129	6 4404	− 8799	0.662 9078	5 3439	+7569	0.287 5268	2 3177	+3292
10	12	0.670 5725	6 4917		0.668 2517	5 2933		0.289 8445	2 2958	
11	0	0.664 0808	6 5423	8940	0.673 5450	5 2423	7425	0.292 1403	2 2738	3229
11	12	0.657 5385	6 5927		0.678 7873	5 1909		0.294 4141	2 2515	
12	0	0.650 9458	6 6425	9079	0.683 9782	5 1390	7278	0.296 6656	2 2291	3165
12	12	−0.644 3033	6 6921		−0.689 1172	5 0867		−0.298 8947	2 2064	
13	0	0.637 6112	6 7409	− 9215	0.694 2039	5 0339	+7130	0.301 1011	2 1836	+3100
13	12	0.630 8703	6 7895		0.699 2378	4 9807		0.303 2847	2 1606	
14	0	0.624 0808	6 8375	9348	0.704 2185	4 9273	6979	0.305 4453	2 1374	3035
14	12	0.617 2433	6 8852		0.709 1458	4 8731		0.307 5827	2 1139	
15	0	0.610 3581	6 9321	9478	0.714 0189	4 8188	6825	0.309 6966	2 0902	2968
15	12	−0.603 4260	6 9788		−0.718 8377	4 7638		−0.311 7868	2 0665	
16	0	0.596 4472	7 0249	− 9606	0.723 6015	4 7085	+6670	0.313 8533	2 0427	+2900
16	12	0.589 4223	7 0704		0.728 3100	4 6527		0.315 8960	2 0183	
17	0	0.582 3519	7 1154	9730	0.732 9627	4 5966	6513	0.317 9143	1 9941	2832
17	12	0.575 2365	7 1599		0.737 5593	4 5399		0.319 9084	1 9694	
18	0	0.568 0766	7 2038	9851	0.742 0992	4 4829	6353	0.321 8778	1 9448	2762
18	12	−0.560 8728	7 2473		−0.746 5821	4 4254		−0.323 8226	1 9198	
19	0	0.553 6255	7 2899	− 9970	0.751 0075	4 3678	+6192	0.325 7424	1 8948	+2692
19	12	0.546 3356	7 3322		0.755 3753	4 3095		0.327 6372	1 8695	
20	0	0.539 0034	7 3737	10085	0.759 6848	4 2510	6028	0.329 5067	1 8441	2621
20	12	0.531 6297	7 4148		0.763 9358	4 1921		0.331 3508	1 8185	
21	0	0.524 2149	7 4552	10197	0.768 1279	4 1327	5863	0.333 1693	1 7928	2550
21	12	−0.516 7597	7 4951		−0.772 2606	4 0731		−0.334 9621	1 7668	
22	0	0.509 2646	7 5342	−10306	0.776 3337	4 0131	+5696	0.336 7289	1 7409	+2477
22	12	0.501 7304	7 5728		0.780 3468	3 9527		0.338 4698	1 7146	
23	0	0.494 1576	7 6108	10412	0.784 2995	3 8922	5527	0.340 1844	1 6883	2404
23	12	0.486 5468	7 6481		0.788 1917	3 8312		0.341 8727	1 6618	
24	0	−0.478 8987		−10514	−0.792 0229		+5357	−0.343 5345		+2330

Sonnenkoordinaten 1930

Welt-Zeit		Mittleres Äquinoktium 1930.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1930	h									
Nov. 24	0	−0.478 8987	7 6847	−10514	−0.792 0229	3 7701	+5357	−0.343 5345	1 6353	+2330
24	12	0.471 2140	7 7210		0.795 7930	3 7086		0.345 1698	1 6085	
25	0	0.463 4930	7 7564	10614	0.799 5016	3 6467	5185	0.346 7783	1 5817	2255
25	12	0.455 7366	7 7913		0.803 1483	3 5846		0.348 3600	1 5547	
26	0	0.447 9453	7 8255	10710	0.806 7329	3 5223	5011	0.349 9147	1 5276	2179
26	12	0.440 1198	7 8591		0.810 2552	3 4597		0.351 4423	1 5005	
27	0	−0.432 2607	7 8921	−10803	−0.813 7149	3 3968	+4836	−0.352 9428	1 4731	+2103
27	12	0.424 3686	7 9246		0.817 1117	3 3336		0.354 4159	1 4458	
28	0	0.416 4440	7 9563	10893	0.820 4453	3 2703	4659	0.355 8617	1 4182	2026
28	12	0.408 4877	7 9874		0.823 7156	3 2067		0.357 2799	1 3906	
29	0	0.400 5003	8 0179	10979	0.826 9223	3 1429	4481	0.358 6705	1 3629	1949
29	12	0.392 4824	8 0479		0.830 0652	3 0789		0.360 0334	1 3351	
30	0	−0.384 4345	8 0771	−11062	−0.833 1441	3 0145	+4302	−0.361 3685	1 3071	+1871
30	12	0.376 3574	8 1058		0.836 1586	2 9501		0.362 6756	1 2792	
Dez. 1	0	0.368 2516	8 1339	11141	0.839 1087	2 8853	4121	0.363 9548	1 2511	1792
1	12	0.360 1177	8 1613		0.841 9940	2 8203		0.365 2059	1 2230	
2	0	0.351 9564	8 1881	11217	0.844 8143	2 7552	3939	0.366 4289	1 1948	1713
2	12	0.343 7683	8 2142		0.847 5695	2 6900		0.367 6237	1 1663	
3	0	−0.335 5541	8 2399	−11289	−0.850 2595	2 6246	+3756	−0.368 7900	1 1381	+1633
3	12	0.327 3142	8 2649		0.852 8841	2 5588		0.369 9281	1 1095	
4	0	0.319 0493	8 2892	11358	0.855 4429	2 4930	3571	0.371 0376	1 0809	1553
4	12	0.310 7601	8 3130		0.857 9359	2 4269		0.372 1185	1 0524	
5	0	0.302 4471	8 3362	11424	0.860 3628	2 3607	3386	0.373 1709	1 0236	1472
5	12	0.294 1109	8 3588		0.862 7235	2 2943		0.374 1945	9949	
6	0	−0.285 7521	8 3806	−11486	−0.865 0178	2 2278	+3199	−0.375 1894	9662	+1391
6	12	0.277 3715	8 4022		0.867 2456	2 1611		0.376 1556	9371	
7	0	0.268 9693	8 4229	11544	0.869 4067	2 0942	3011	0.377 0927	9082	1310
7	12	0.260 5464	8 4431		0.871 5009	2 0271		0.378 0009	8791	
8	0	0.252 1033	8 4627	11599	0.873 5280	1 9600	2823	0.378 8800	8500	1228
8	12	0.243 6406	8 4818		0.875 4880	1 8925		0.379 7300	8208	
9	0	−0.235 1588	8 5000	−11650	−0.877 3805	1 8248	+2634	−0.380 5508	7916	+1146
9	12	0.226 6588	8 5180		0.879 2053	1 7570		0.381 3424	7621	
10	0	0.218 1408	8 5351	11698	0.880 9623	1 6892	2444	0.382 1045	7328	1063
10	12	0.209 6057	8 5517		0.882 6515	1 6210		0.382 8373	7032	
11	0	0.201 0540	8 5676	11742	0.884 2725	1 5527	2253	0.383 5405	6737	980
11	12	0.192 4864	8 5829		0.885 8252	1 4842		0.384 2142	6440	
12	0	−0.183 9035	8 5976	−11782	−0.887 3094	1 4156	+2061	−0.384 8582	6143	+ 897
12	12	0.175 3059	8 6116		0.888 7250	1 3467		0.385 4725	5844	
13	0	0.166 6943	8 6250	11819	0.890 0717	1 2779	1869	0.386 0569	5545	813
13	12	0.158 0693	8 6377		0.891 3496	1 2086		0.386 6114	5245	
14	0	0.149 4316	8 6497	−11852	0.892 5582	1 1393	+1676	0.387 1359	4946	+ 729
14	12	−0.140 7819			−0.893 6975			−0.387 6305		

Welt-Zeit	X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
	Mittleres Äquinoktium 1930.0								
1930									
Dez. 14 12h	−0.140 7819	8 6610		−0.893 6975	1 0700		−0.387 6305	4643	
15 0	0.132 1209	8 6717	−11882	0.894 7675	1 0004	+1483	0.388 0948	4342	+645
15 12	0.123 4492	8 6818		0.895 7679	9306		0.388 5290	4040	
16 0	0.114 7674	8 6909	11908	0.896 6985	8609	1289	0.388 9330	3738	561
16 12	0.106 0765	8 6995		0.897 5594	7910		0.389 3068	3434	
17 0	0.097 3770	8 7073	11930	0.898 3504	7209	1095	0.389 6502	3130	477
17 12	−0.088 6697	8 7145		−0.899 0713	6508		−0.389 9632	2825	
18 0	0.079 9552	8 7209	−11949	0.899 7221	5807	+ 900	0.390 2457	2521	+392
18 12	0.071 2343	8 7266		0.900 3028	5104		0.390 4978	2216	
19 0	0.062 5077	8 7315	11963	0.900 8132	4400	705	0.390 7194	1911	307
19 12	0.053 7762	8 7359		0.901 2532	3697		0.390 9105	1605	
20 0	0.045 0403	8 7392	11974	0.901 6229	2994	510	0.391 0710	1299	222
20 12	−0.036 3011	8 7422		−0.901 9223	2289		−0.391 2009	994	
21 0	0.027 5589	8 7442	−11981	0.902 1512	1584	+ 315	0.391 3003	687	+137
21 12	0.018 8147	8 7456		0.902 3096	879		0.391 3690	382	
22 0	0.010 0691	8 7462	11985	0.902 3975	175	+ 120	0.391 4072	75	+ 52
22 12	−0.001 3229	8 7461		0.902 4150	529		0.391 4147	230	
23 0	+0.007 4232	8 7454	11984	0.902 3621	1234	− 76	0.391 3917	536	− 33
23 12	+0.016 1686	8 7437		−0.902 2387	1937		−0.391 3381	842	
24 0	0.024 9123	8 7417	−11980	0.902 0450	2641	− 271	0.391 2539	1148	−118
24 12	0.033 6540	8 7387		0.901 7809	3344		0.391 1391	1452	
25 0	0.042 3927	8 7351	11973	0.901 4465	4047	467	0.390 9939	1757	203
25 12	0.051 1278	8 7307		0.901 0418	4749		0.390 8182	2063	
26 0	0.059 8585	8 7259	11961	0.900 5669	5451	662	0.390 6119	2367	288
26 12	+0.068 5844	8 7201		−0.900 0218	6151		−0.390 3752	2671	
27 0	0.077 3045	8 7137	−11946	0.899 4067	6850	− 857	0.390 1081	2974	−373
27 12	0.086 0182	8 7067		0.898 7217	7551		0.389 8107	3278	
28 0	0.094 7249	8 6989	11927	0.897 9666	8249	1051	0.389 4829	3581	457
28 12	0.103 4238	8 6905		0.897 1417	8946		0.389 1248	3883	
29 0	0.112 1143	8 6815	11904	0.896 2471	9642	1246	0.388 7365	4186	542
29 12	+0.120 7958	8 6718		−0.895 2829	1 0339		−0.388 3179	4487	
30 0	0.129 4676	8 6612	−11877	0.894 2490	1 1032	−1440	0.387 8692	4788	−626
30 12	0.138 1288	8 6501		0.893 1458	1 1724		0.387 3904	5090	
31 0	0.146 7789	8 6384	11847	0.891 9734	1 2417	1634	0.386 8814	5389	710
31 12	0.155 4173	8 6260		0.890 7317	1 3108		0.386 3425	5688	
32 0	+0.164 0433		−11813	−0.889 4209		−1826	−0.385 7737		−794

Frühlingsäquinoktium	21. März	8h 30m	Herbstäquinoktium	23. Sept.	18h 37m
Sommersolstitium	22. Juni	3 54	Wintersolstitium	22. Dez.	13 40

Perigäum	3. Jan.	12h
Apogäum	3. Juli	0

Tag	0h Welt-Zeit Aberration	Parallaxe	Mittlere Länge $L_\odot$	Mittlere Anomalie $M_\odot$
1930				
Jan. −2	20.82	8.95	276.9704	355.24
+8	20.81	8.95	286.8269	5.09
18	20.81	8.94	296.6834	14.94
28	20.78	8.93	306.5399	24.80
Febr. 7	20.75	8.92	316.3964	34.65
17	20.71	8.90	326.2529	44.51
27	20.67	8.88	336.1093	54.37
März 9	20.61	8.86	345.9658	64.22
19	20.56	8.84	355.8223	74.08
29	20.50	8.81	5.6788	83.93
April 8	20.44	8.79	15.5352	93.79
18	20.38	8.76	25.3917	103.65
28	20.33	8.74	35.2482	113.50
Mai 8	20.28	8.72	45.1046	123.36
18	20.24	8.70	54.9611	133.21
28	20.20	8.68	64.8176	143.07
Juni 7	20.17	8.67	74.6741	152.93
17	20.15	8.66	84.5305	162.78
27	20.14	8.66	94.3870	172.64
Juli 7	20.13	8.66	104.2435	182.49
17	20.14	8.66	114.1000	192.35
27	20.16	8.67	123.9564	202.21
Aug. 6	20.18	8.68	133.8129	212.06
16	20.22	8.69	143.6694	221.92
26	20.26	8.71	153.5259	231.77
Sept. 5	20.31	8.73	163.3823	241.63
15	20.36	8.75	173.2388	251.49
25	20.41	8.78	183.0953	261.34
Okt. 5	20.47	8.80	192.9517	271.20
15	20.53	8.83	202.8082	281.05
25	20.59	8.85	212.6647	290.91
Nov. 4	20.64	8.87	222.5212	300.77
14	20.69	8.90	232.3776	310.62
24	20.73	8.91	242.2341	320.48
Dez. 4	20.77	8.93	252.0906	330.33
14	20.80	8.94	261.9471	340.19
24	20.81	8.95	271.8035	350.05
34	20.82	8.95	281.6600	359.90

Phasen des Mondes

1930		Welt-Zeit h	m	
Jan.	8	3	10.8	Erstes Viertel
	14	22	21.0	Vollmond
	21	16	7.0	Letztes Viertel
	29	19	7.4	Neumond
Febr.	6	17	25.8	Erstes Viertel
	13	8	38.6	Vollmond
	20	8	44.4	Letztes Viertel
	28	13	32.7	Neumond
März	8	4	0.3	Erstes Viertel
	14	18	58.4	Vollmond
	22	3	12.6	Letztes Viertel
	30	5	46.4	Neumond
April	6	11	24.9	Erstes Viertel
	13	5	48.5	Vollmond
	20	22	8.5	Letztes Viertel
	28	19	8.4	Neumond
Mai	5	16	53.1	Erstes Viertel
	12	17	29.3	Vollmond
	20	16	21.6	Letztes Viertel
	28	5	36.6	Neumond
Juni	3	21	56.3	Erstes Viertel
	11	6	11.7	Vollmond
	19	9	0.4	Letztes Viertel
	26	13	46.7	Neumond

1930		Welt-Zeit h	m	
Juli	3	4	3.1	Erstes Viertel
	10	20	1.1	Vollmond
	18	23	29.2	Letztes Viertel
	25	20	41.9	Neumond
Aug.	1	12	26.4	Erstes Viertel
	9	10	57.6	Vollmond
	17	11	30.6	Letztes Viertel
	24	3	36.9	Neumond
	30	23	56.7	Erstes Viertel
Sept.	8	2	47.8	Vollmond
	15	21	12.7	Letztes Viertel
	22	11	41.6	Neumond
	29	14	57.8	Erstes Viertel
Okt.	7	18	55.6	Vollmond
	15	5	11.9	Letztes Viertel
	21	21	47.6	Neumond
	29	9	22.1	Erstes Viertel
Nov.	6	10	28.1	Vollmond
	13	12	27.3	Letztes Viertel
	20	10	21.2	Neumond
	28	6	17.6	Erstes Viertel
Dez.	6	0	39.9	Vollmond
	12	20	6.6	Letztes Viertel
	20	1	23.7	Neumond
	28	3	58.7	Erstes Viertel

Mond im Perigäum

1930		Welt-Zeit h
Jan.	15	0.4
Febr.	12	13.0
März	12	20.4
April	9	11.2
Mai	4	18.8
Mai	31	5.6
Juni	28	3.3
Juli	26	10.1
Aug.	23	19.8
Sept.	21	4.9
Okt.	19	7.7
Nov.	15	6.5
Dez.	10	1.7

Mond im Apogäum

1930		Welt-Zeit h
Jan.	1	15.8
Jan.	28	16.2
Febr.	25	0.5
März	24	17.4
April	21	12.9
Mai	19	7.9
Juni	16	0.9
Juli	13	13.6
Aug.	9	19.0
Sept.	5	21.9
Okt.	3	8.9
Okt.	31	2.3
Nov.	27	22.9
Dez.	25	19.8

Tag	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite
	0h Welt-Zeit									
1930	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Jan. 0	18 40 23	53 6	−27 26.9	0 54.8	54 3.2	6.2	14 45.2	1.7	278.976	−4.313
1	19 33 29	51 33	−26 32.1	2 6.4	53 57.0	0.9	14 43.5	0.3	290.861	−4.763
2	20 25 2	49 27	−24 25.7	3 9.5	53 56.1	5.1	14 43.2	1.4	302.722	−5.004
3	21 14 29	47 15	−21 16.2	4 2.0	54 1.2	11.8	14 44.6	3.2	314.584	−5.030
4	22 1 44	45 24	−17 14.2	4 43.7	54 13.0	19.5	14 47.8	5.3	326.480	−4.837
5	22 47 8	44 14	−12 30.5	5 15.2	54 32.5	27.8	14 53.1	7.6	338.453	−4.430
6	23 31 22	43 57	− 7 15.3	5 37.0	55 0.3	36.4	15 0.7	10.0	350.558	−3.822
7	0 15 19	44 45	− 1 38.3	5 48.6	55 36.7	45.0	15 10.7	12.2	2.862	−3.026
8	1 0 4	46 45	+ 4 10.3	5 48.7	56 21.7	52.3	15 22.9	14.2	15.438	−2.068
9	1 46 49	50 1	+ 9 59.0	5 33.5	57 14.0	57.3	15 37.1	15.7	28.363	−0.979
10	2 36 50	54 31	+15 32.5	4 58.3	58 11.3	58.6	15 52.8	15.9	41.710	+0.197
11	3 31 21	59 47	+20 30.8	3 57.2	59 9.9	55.0	16 8.7	15.0	55.532	+1.401
12	4 31 8	64 47	+24 28.0	2 27.1	60 4.9	45.5	16 23.7	12.4	69.847	+2.558
13	5 35 55	68 1	+26 55.1	0 32.2	60 50.4	30.4	16 36.1	8.3	84.622	+3.580
14	6 43 56	68 14	+27 27.3	1 33.0	61 20.8	10.8	16 44.4	3.0	99.762	+4.376
15	7 52 10	65 26	+25 54.3	3 28.1	61 31.6	10.0	16 47.4	2.8	115.113	+4.868
16	8 57 36	60 53	+22 26.2	4 57.4	61 21.6	29.6	16 44.6	8.0	130.480	+5.010
17	9 58 29	56 7	+17 28.8	5 54.5	60 52.0	44.6	16 36.6	12.2	145.666	+4.795
18	10 54 36	52 9	+11 34.3	6 21.6	60 7.4	54.1	16 24.4	14.8	160.504	+4.259
19	11 46 45	49 24	+ 5 12.7	6 24.3	59 13.3	57.9	16 9.6	15.7	174.887	+3.465
20	12 36 9	47 56	− 1 11.6	6 8.4	58 15.4	56.6	15 53.9	15.4	188.771	+2.487
21	13 24 5	47 39	− 7 20.0	5 38.4	57 18.8	51.8	15 38.5	14.1	202.168	+1.403
22	14 11 44	48 19	−12 58.4	4 56.7	56 27.0	44.9	15 24.4	12.3	215.127	+0.279
23	15 0 3	49 39	−17 55.1	4 4.4	55 42.1	36.7	15 12.1	10.0	227.722	−0.827
24	15 49 42	51 14	−21 59.5	3 2.8	55 5.4	28.5	15 2.1	7.7	240.032	−1.869
25	16 40 56	52 40	−25 2.3	1 53.0	54 36.9	20.5	14 54.4	5.6	252.136	−2.806
26	17 33 36	53 23	−26 55.3	0 37.8	54 16.4	13.2	14 48.8	3.6	264.105	−3.607
27	18 26 59	53 10	−27 33.1	0 38.6	54 3.2	6.8	14 45.2	1.9	275.995	−4.242
28	19 20 9	51 57	−26 54.5	1 51.9	53 56.4	0.9	14 43.3	0.2	287.852	−4.691
29	20 12 6	50 3	−25 2.6	2 57.7	53 55.5	4.3	14 43.1	1.1	299.710	−4.936
30	21 2 9	47 52	−22 4.9	3 53.4	53 59.8	9.3	14 44.2	2.6	311.593	−4.966
31	21 50 1	45 54	−18 11.5	4 37.8	54 9.1	14.4	14 46.8	3.9	323.521	−4.779
Febr. 1	22 35 55	44 25	−13 33.7	5 10.9	54 23.5	19.7	14 50.7	5.4	335.515	−4.379
2	23 20 20	43 44	− 8 22.8	5 33.2	54 43.2	25.5	14 56.1	6.9	347.598	−3.778
3	0 4 4	43 57	− 2 49.6	5 44.5	55 8.7	31.7	15 3.0	8.7	359.805	−2.998
4	0 48 1	45 16	+ 2 54.9	5 44.6	55 40.4	38.0	15 11.7	10.3	12.178	−2.064
5	1 33 17	47 43	+ 8 39.5	5 31.3	56 18.4	44.1	15 22.0	12.0	24.772	−1.011
6	2 21 0	51 21	+14 10.8	5 1.7	57 2.5	49.0	15 34.0	13.4	37.651	+0.117
7	3 12 21	55 55	+19 12.5	4 11.4	57 51.5	51.7	15 47.4	14.1	50.880	+1.270
8	4 8 16	60 49	+23 23.9	2 56.6	58 43.2	51.0	16 1.5	13.9	64.514	+2.386
9	5 9 5	64 54	+26 20.5	1 17.2	59 34.2	45.6	16 15.4	12.4	78.590	+3.394
10	6 13 59		+27 37.7		60 19.8		16 27.8		93.104	+4.215

Tag	Obere Kulmination in Greenwich							0h Länge, +50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1930	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Jan. 0	19 8 11	138	−27 7.7	+ 2.4	54.0	12 30.4	2.12	8 55	1.9	16 8	2.5
1	20 2 23	133	−25 30.2	+ 5.6	53.9	13 20.5	2.05	9 35	1.4	17 12	2.7
2	20 54 27	127	−22 41.0	+ 8.4	54.0	14 8.5	1.95	10 4	1.1	18 20	2.9
3	21 44 4	121	−18 51.5	+10.7	54.1	14 54.1	1.85	10 27	0.9	19 30	2.9
4	22 31 28	116	−14 13.6	+12.4	54.4	15 37.4	1.76	10 45	0.7	20 41	2.9
5	23 17 17	113	− 8 59.0	+13.7	54.8	16 19.2	1.72	11 0	0.6	21 51	2.9
6	0 2 28	113	− 3 18.2	+14.6	55.4	17 0.3	1.72	11 14	0.6	23 1	3.0
7	0 48 10	116	+ 2 38.3	+15.0	56.2	17 41.9	1.76	11 27	0.5	—	—
8	1 35 42	122	+ 8 38.7	+14.9	57.0	18 25.4	1.87	11 40	0.6	0 13	3.1
9	2 26 31	132	+14 27.9	+14.1	58.0	19 12.1	2.03	11 56	0.8	1 28	3.2
10	3 22 3	146	+19 45.3	+12.2	59.0	20 3.6	2.26	12 16	1.0	2 47	3.4
11	4 23 24	161	+24 2.8	+ 9.0	60.0	21 0.8	2.51	12 42	1.3	4 11	3.5
12	5 30 32	174	+26 47.2	+ 4.4	60.8	22 3.9	2.73	13 20	1.9	5 37	3.5
13	6 41 35	180	+27 28.2	− 1.1	61.3	23 10.8	2.82	14 15	2.7	6 58	3.1
14	—	—	—	—	—	—	—	15 29	3.4	8 4	2.4
15	7 53 1	176	+25 52.4	− 6.8	61.5	0 18.1	2.76	16 57	3.7	8 53	1.7
16	9 1 12	164	+22 11.3	−11.4	61.3	1 22.2	2.57	18 29	3.8	9 27	1.2
17	10 4 11	150	+16 56.0	−14.6	60.8	2 21.0	2.34	19 59	3.6	9 52	0.9
18	11 1 51	138	+10 43.7	−16.2	60.0	3 14.6	2.14	21 24	3.4	10 11	0.7
19	11 55 16	129	+ 4 7.2	−16.6	59.1	4 4.0	1.99	22 44	3.3	10 27	0.6
20	12 45 54	124	− 2 27.7	−16.1	58.1	4 50.5	1.90	—	—	10 41	0.6
21	13 35 11	123	− 8 42.1	−15.0	57.1	5 35.7	1.88	0 2	3.2	10 56	0.7
22	14 24 25	124	−14 21.4	−13.2	56.2	6 20.9	1.89	1 18	3.1	11 13	0.8
23	15 14 37	127	−19 13.5	−11.0	55.5	7 7.0	1.95	2 32	3.1	11 32	0.9
24	16 6 25	132	−23 7.1	− 8.4	54.9	7 54.8	2.02	3 46	3.0	11 56	1.2
25	16 59 58	136	−25 51.9	− 5.3	54.5	8 44.2	2.09	4 56	2.8	12 28	1.5
26	17 54 53	138	−27 19.6	− 2.0	54.2	9 35.1	2.14	5 59	2.4	13 9	1.9
27	18 50 12	138	−27 25.6	+ 1.5	54.0	10 26.3	2.13	6 53	2.0	14 1	2.4
28	19 44 46	135	−26 10.6	+ 4.7	53.9	11 16.8	2.07	7 36	1.6	15 3	2.7
29	20 37 35	129	−23 40.7	+ 7.7	54.0	12 5.5	1.98	8 8	1.2	16 10	2.9
30	21 28 5	123	−20 6.0	+10.1	54.1	12 52.0	1.89	8 32	0.9	17 21	2.9
31	22 16 15	118	−15 38.8	+12.1	54.3	13 36.1	1.80	8 51	0.7	18 31	2.9
Febr. 1	23 2 31	114	−10 31.7	+13.5	54.6	14 18.3	1.73	9 7	0.6	19 42	2.9
2	23 47 40	112	− 4 56.6	+14.4	55.0	14 59.4	1.70	9 20	0.5	20 51	2.9
3	0 32 40	113	+ 0 54.7	+14.8	55.5	15 40.3	1.72	9 33	0.5	22 2	3.0
4	1 18 41	117	+ 6 50.7	+14.8	56.1	16 22.3	1.79	9 46	0.6	23 14	3.1
5	2 6 59	125	+12 37.9	+14.1	56.8	17 6.5	1.91	10 1	0.7	—	—
6	2 58 55	135	+17 59.8	+12.6	57.6	17 54.4	2.08	10 18	0.8	0 30	3.2
7	3 55 42	149	+22 34.7	+10.1	58.5	18 47.1	2.31	10 40	1.1	1 50	3.4
8	4 57 59	162	+25 55.8	+ 6.4	59.4	19 45.2	2.54	11 11	1.6	3 12	3.4
9	6 5 10	172	+27 33.9	+ 1.6	60.2	20 48.3	2.70	11 56	2.2	4 33	3.2
10	7 15 0	175	+27 6.5	− 3.9	60.9	21 54.0	2.75	12 58	3.0	5 45	2.7

Tag	0ʰ Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1930	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Febr. 10	6 13 59	66 53	+27 37.7	0 39.5	60 19.8	35.1	16 27.8	9.5	93.104	+4.215
11	7 20 52	66 5	+26 58.2	2 38.4	60 54.9	19.6	16 37.3	5.4	108.002	+4.775
12	8 26 57	62 59	+24 19.8	4 22.3	61 14.5	0.9	16 42.7	0.2	123.169	+5.012
13	9 29 56	58 52	+19 57.5	5 38.9	61 15.4	18.7	16 42.9	5.1	138.441	+4.896
14	10 28 48	54 56	+14 18.6	6 24.1	60 56.7	36.2	16 37.8	9.8	153.630	+4.435
15	11 23 44	51 53	+ 7 54.5	6 40.0	60 20.5	49.2	16 28.0	13.4	168.558	+3.675
16	12 15 37	50 0	+ 1 14.5	6 31.5	59 31.3	56.7	16 14.6	15.5	183.088	+2.692
17	13 5 37	49 15	− 5 17.0	6 4.0	58 34.6	58.6	15 59.1	15.9	197.141	+1.571
18	13 54 52	49 29	−11 21.0	5 21.6	57 36.0	55.8	15 43.2	15.2	210.697	+0.396
19	14 44 21	50 25	−16 42.6	4 27.5	56 40.2	49.5	15 28.0	13.5	223.785	−0.761
20	15 34 46	51 43	−21 10.1	3 23.7	55 50.7	41.1	15 14.5	11.2	236.465	−1.847
21	16 26 29	52 53	−24 33.8	2 12.5	55 9.6	31.6	15 3.3	8.6	248.816	−2.817
22	17 19 22	53 34	−26 46.3	0 56.3	54 38.0	21.8	14 54.7	6.0	260.923	−3.640
23	18 12 56	53 23	−27 42.6	0 21.1	54 16.2	12.6	14 48.7	3.4	272.870	−4.292
24	19 6 19	52 18	−27 21.5	1 35.7	54 3.6	4.0	14 45.3	1.1	284.730	−4.753
25	19 58 37	50 32	−25 45.8	2 43.9	53 59.6	3.5	14 44.2	0.9	296.569	−5.008
26	20 49 9	48 29	−23 1.9	3 43.0	54 3.1	9.7	14 45.1	2.7	308.436	−5.049
27	21 37 38	46 32	−19 18.9	4 31.4	54 12.8	15.0	14 47.8	4.1	320.373	−4.869
28	22 24 10	44 59	−14 47.5	5 8.4	54 27.8	19.2	14 51.9	5.2	332.405	−4.472
März 1	23 9 9	44 8	− 9 39.1	5 34.1	54 47.0	22.8	14 57.1	6.2	344.554	−3.869
2	23 53 17	44 7	− 4 5.0	5 47.9	55 9.8	26.0	15 3.3	7.1	356.834	−3.078
3	0 37 24	45 2	+ 1 42.9	5 49.3	55 35.8	29.0	15 10.4	7.9	9.264	−2.130
4	1 22 26	46 59	+ 7 32.2	5 36.9	56 4.8	32.0	15 18.3	8.7	21.862	−1.063
5	2 9 25	49 59	+13 9.1	5 8.7	56 36.8	34.8	15 27.0	9.5	34.656	+0.077
6	2 59 24	53 49	+18 17.8	4 21.9	57 11.6	37.3	15 36.5	10.2	47.679	+1.235
7	3 53 13	58 4	+22 39.7	3 14.1	57 48.9	38.8	15 46.7	10.5	60.970	+2.351
8	4 51 17	61 54	+25 53.8	1 44.7	58 27.7	38.4	15 57.2	10.5	74.564	+3.362
9	5 53 11	64 15	+27 38.5	0 1.4	59 6.1	35.3	16 7.7	9.6	88.487	+4.200
10	6 57 26	64 24	+27 37.1	1 54.0	59 41.4	28.8	16 17.3	7.9	102.739	+4.801
11	8 1 50	62 25	+25 43.1	3 39.4	60 10.2	18.7	16 25.2	5.1	117.290	+5.109
12	9 4 15	59 12	+22 3.7	5 5.9	60 28.9	5.2	16 30.3	1.4	132.067	+5.086
13	10 3 27	55 47	+16 57.8	6 6.2	60 34.1	10.1	16 31.7	2.8	146.960	+4.722
14	10 59 14	52 58	+10 51.6	6 38.5	60 24.0	25.4	16 28.9	6.9	161.830	+4.039
15	11 52 12	51 8	+ 4 13.1	6 44.5	59 58.6	38.5	16 22.0	10.5	176.534	+3.094
16	12 43 20	50 20	− 2 31.4	6 27.4	59 20.1	47.8	16 11.5	13.0	190.947	+1.967
17	13 33 40	50 30	− 8 58.8	5 51.0	58 32.3	52.4	15 58.5	14.3	204.978	+0.745
18	14 24 10	51 22	−14 49.8	4 58.8	57 39.9	52.4	15 44.2	14.2	218.584	−0.486
19	15 15 32	52 35	−19 48.6	3 54.4	56 47.5	48.4	15 30.0	13.3	231.760	−1.654
20	16 8 7	53 45	−23 43.0	2 40.7	55 59.1	41.5	15 16.7	11.3	244.541	−2.705
21	17 1 52	54 21	−26 23.7	1 21.8	55 17.6	32.6	15 5.4	8.8	256.983	−3.599
22	17 56 13	54 7	−27 45.5	0 1.7	54 45.0	22.5	14 56.6	6.2	269.161	−4.311
23	18 50 20		−27 47.2		54 22.5		14 50.4		281.153	−4.822

Tag	Obere Kulmination in Greenwich							0h Länge, +50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1930	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Febr. 10	7 15 0	175	+27 6.5	− 3.9	60.9	21 54.0	2.75	12 58	3.0	5 45	2.7
11	8 24 12	170	+24 28.8	− 9.1	61.2	22 59.1	2.66	14 19	3.6	6 41	2.0
12	—	—	—	—	—	—	—	15 50	3.8	7 21	1.4
13	9 29 58	159	+19 57.3	−13.3	61.3	0 0.8	2.48	17 22	3.8	7 50	1.1
14	10 31 5	147	+14 3.8	−15.9	60.9	0 57.8	2.28	18 52	3.6	8 12	0.8
15	11 27 48	137	+ 7 24.0	−17.2	60.3	1 50.4	2.11	20 17	3.5	8 29	0.7
16	12 21 14	131	+ 0 30.3	−17.1	59.4	2 39.8	2.01	21 39	3.4	8 45	0.6
17	13 12 43	127	− 6 11.5	−16.2	58.4	3 27.2	1.96	22 59	3.3	9 0	0.6
18	14 3 33	127	−12 21.2	−14.5	57.4	4 13.9	1.95	—	—	9 16	0.7
19	14 54 48	129	−17 43.4	−12.3	56.5	5 1.1	1.99	0 17	3.2	9 34	0.9
20	15 47 12	133	−22 5.7	− 9.5	55.7	5 49.4	2.04	1 33	3.1	9 57	1.1
21	16 41 2	136	−25 17.9	− 6.4	55.0	6 39.2	2.11	2 46	2.9	10 26	1.4
22	17 36 5	139	−27 12.2	− 3.1	54.5	7 30.2	2.14	3 53	2.6	11 4	1.8
23	18 31 35	139	−27 44.0	+ 0.4	54.2	8 21.6	2.14	4 50	2.1	11 53	2.2
24	19 26 33	136	−26 53.4	+ 3.8	54.0	9 12.5	2.09	5 36	1.7	12 52	2.6
25	20 19 59	131	−24 45.1	+ 6.8	54.0	10 1.8	2.01	6 11	1.3	13 59	2.9
26	21 11 16	125	−21 28.1	+ 9.5	54.1	10 49.0	1.92	6 37	1.0	15 9	2.9
27	22 0 17	120	−17 13.5	+11.6	54.3	11 34.0	1.83	6 58	0.8	16 20	3.0
28	22 47 20	116	−12 13.6	+13.3	54.6	12 17.0	1.76	7 14	0.6	17 31	3.0
März 1	23 33 4	113	− 6 40.9	+14.4	55.0	12 58.7	1.72	7 28	0.6	18 42	3.0
2	0 18 21	113	− 0 47.9	+15.0	55.4	13 39.9	1.72	7 41	0.5	19 53	3.0
3	1 4 10	116	+ 5 12.5	+15.0	55.9	14 21.6	1.77	7 54	0.6	21 5	3.1
4	1 51 40	122	+11 6.3	+14.4	56.4	15 5.1	1.86	8 8	0.6	22 20	3.2
5	2 42 3	130	+16 37.3	+13.1	57.0	15 51.4	2.01	8 23	0.7	23 38	3.3
6	3 36 23	141	+21 26.2	+10.9	57.6	16 41.6	2.19	8 43	1.0	—	—
7	4 35 25	153	+25 10.0	+ 7.6	58.3	17 36.6	2.39	9 10	1.4	0 59	3.4
8	5 38 59	164	+27 23.7	+ 3.4	59.0	18 36.0	2.56	9 48	1.9	2 19	3.2
9	6 45 42	169	+27 45.7	− 1.6	59.6	19 38.6	2.64	10 41	2.6	3 32	2.8
10	7 53 3	167	+26 5.4	− 6.7	60.1	20 41.9	2.61	11 52	3.2	4 32	2.2
11	8 58 26	160	+22 28.6	−11.2	60.5	21 43.2	2.49	13 16	3.6	5 17	1.6
12	10 0 17	150	+17 16.4	−14.6	60.6	22 40.9	2.32	14 47	3.8	5 50	1.2
13	10 58 17	141	+10 58.4	−16.7	60.4	23 34.8	2.17	16 17	3.7	6 13	0.9
14	—	—	—	—	—	—	—	17 44	3.6	6 32	0.7
15	11 53 8	134	+ 4 5.9	−17.5	60.0	0 25.6	2.07	19 9	3.5	6 48	0.6
16	12 45 56	130	− 2 52.0	−17.2	59.3	1 14.3	2.01	20 31	3.4	7 3	0.6
17	13 37 56	130	− 9 30.3	−15.9	58.5	2 2.2	1.99	21 52	3.4	7 19	0.7
18	14 30 11	132	−15 28.2	−13.8	57.6	2 50.4	2.02	23 12	3.3	7 36	0.8
19	15 23 28	135	−20 28.8	−11.1	56.7	3 39.6	2.08	—	—	7 57	1.0
20	16 18 8	138	−24 19.0	− 8.0	55.8	4 30.2	2.14	0 29	3.1	8 24	1.3
21	17 13 59	141	−26 49.0	− 4.5	55.2	5 22.0	2.17	1 41	2.8	8 59	1.7
22	18 10 20	141	−27 53.6	− 0.9	54.6	6 14.2	2.17	2 44	2.4	9 44	2.1
23	19 6 10	138	−27 32.7	+ 2.6	54.3	7 6.0	2.13	3 34	1.9	10 40	2.5

Tag	0h Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1930	h m s	m s	° ′ ″	′ ″	′ ″	″	′ ″	″	°	°
März 23	18 50 20	52 59	−27 47.2	1 15.5	54 22.5	12.2	14 50.4	3.3	281.153	−4.822
24	19 43 19	51 10	−26 31.7	2 26.2	54 10.3	2.1	14 47.1	0.6	293.041	−5.121
25	20 34 29	49 3	−24 5.5	3 28.0	54 8.2	7.0	14 46.5	1.9	304.900	−5.201
26	21 23 32	47 1	−20 37.5	4 19.9	54 15.2	14.9	14 48.4	4.1	316.799	−5.058
27	22 10 33	45 26	−16 17.6	5 1.3	54 30.1	21.3	14 52.5	5.8	328.795	−4.693
28	22 55 59	44 32	−11 16.3	5 31.6	54 51.4	26.0	14 58.3	7.1	340.934	−4.114
29	23 40 31	44 25	− 5 44.7	5 50.6	55 17.4	28.9	15 5.4	7.9	353.249	−3.336
30	0 24 56	45 15	+ 0 5.9	5 56.8	55 46.3	30.4	15 13.3	8.2	5.760	−2.386
31	1 10 11	47 3	+ 6 2.7	5 48.3	56 16.7	30.5	15 21.5	8.4	18.481	−1.300
April 1	1 57 14	49 50	+11 51.0	5 23.2	56 47.2	29.7	15 29.9	8.1	31.415	−0.129
2	2 47 4	53 24	+17 14.2	4 38.5	57 16.9	28.4	15 38.0	7.7	44.561	+1.070
3	3 40 28	57 20	+21 52.7	3 32.8	57 45.3	26.6	15 45.7	7.2	57.919	+2.231
4	4 37 48	60 51	+25 25.5	2 6.3	58 11.9	24.7	15 52.9	6.8	71.485	+3.286
5	5 38 39	63 1	+27 31.8	0 24.3	58 36.6	22.3	15 59.7	6.0	85.257	+4.168
6	6 41 40	63 10	+27 56.1	1 24.1	58 58.9	18.9	16 5.7	5.2	99.226	+4.818
7	7 44 50	61 21	+26 32.0	3 6.8	59 17.8	14.3	16 10.9	3.9	113.374	+5.186
8	8 46 11	58 22	+23 25.2	4 34.0	59 32.1	7.9	16 14.8	2.1	127.672	+5.240
9	9 44 33	55 8	+18 51.2	5 39.5	59 40.0	0.3	16 16.9	0.1	142.071	+4.967
10	10 39 41	52 27	+13 11.7	6 21.1	59 39.7	10.0	16 16.8	2.7	156.506	+4.381
11	11 32 8	50 42	+ 6 50.6	6 38.9	59 29.7	20.1	16 14.1	5.4	170.898	+3.520
12	12 22 50	49 59	+ 0 11.7	6 34.4	59 9.6	29.7	16 8.7	8.1	185.161	+2.447
13	13 12 49	50 15	− 6 22.7	6 9.3	58 39.9	37.4	16 0.6	10.2	199.214	+1.239
14	14 3 4	51 20	−12 32.0	5 25.5	58 2.5	42.3	15 50.4	11.6	212.989	−0.020
15	14 54 24	52 49	−17 57.5	4 26.0	57 20.2	43.8	15 38.8	11.9	226.443	−1.250
16	15 47 13	54 16	−22 23.5	3 13.7	56 36.4	42.1	15 26.9	11.4	239.556	−2.382
17	16 41 29	55 11	−25 37.2	1 53.4	55 54.3	37.2	15 15.5	10.2	252.337	−3.366
18	17 36 40	55 9	−27 30.6	0 30.2	55 17.1	29.9	15 5.3	8.1	264.816	−4.165
19	18 31 49	54 3	−28 0.8	0 50.7	54 47.2	20.9	14 57.2	5.7	277.043	−4.757
20	19 25 52	52 7	−27 10.1	2 4.7	54 26.3	10.9	14 51.5	3.0	289.081	−5.130
21	20 17 59	49 47	−25 5.4	3 9.5	54 15.4	0.4	14 48.5	0.1	301.004	−5.277
22	21 7 46	47 30	−21 55.9	4 3.8	54 15.0	9.9	14 48.4	2.7	312.887	−5.199
23	21 55 16	45 41	−17 52.1	4 48.0	54 24.9	19.2	14 51.1	5.2	324.808	−4.898
24	22 40 57	44 33	−13 4.1	5 22.1	54 44.1	27.2	14 56.3	7.4	336.839	−4.380
25	23 25 30	44 19	− 7 42.0	5 45.9	55 11.3	33.3	15 3.7	9.1	349.046	−3.658
26	0 9 49	45 2	− 1 56.1	5 58.3	55 44.6	37.1	15 12.8	10.1	1.482	−2.751
27	0 54 51	46 48	+ 4 2.2	5 57.0	56 21.7	38.1	15 22.9	10.4	14.186	−1.691
28	1 41 39	49 37	+ 9 59.2	5 38.9	56 59.8	36.6	15 33.3	10.0	27.179	−0.521
29	2 31 16	53 19	+15 38.1	5 0.3	57 36.4	32.7	15 43.3	8.9	40.465	+0.703
30	3 24 35	57 28	+20 38.4	3 58.5	58 9.1	27.1	15 52.2	7.4	54.026	+1.912
Mai 1	4 22 3	61 15	+24 36.9	2 33.6	58 36.2	20.5	15 59.6	5.5	67.829	+3.031
2	5 23 18	63 39	+27 10.5	0 50.5	58 56.7	13.7	16 5.1	3.8	81.826	+3.984
3	6 26 57		+28 1.0		59 10.4		16 8.9		95.963	+4.706

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1930	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
März 23	19 6 10	138	—27 32.7	+ 2.6	54.3	7 6.0	2.13	3 34	1.9	10 40	2.5
24	20 0 28	133	—25 50.8	+ 5.8	54.1	7 56.2	2.05	4 13	1.4	11 45	2.8
25	20 52 35	127	—22 56.4	+ 8.6	54.2	8 44.2	1.95	4 42	1.1	12 54	2.9
26	21 42 22	122	—19 0.2	+11.0	54.3	9 29.9	1.86	5 4	0.8	14 6	3.0
27	22 30 4	117	—14 13.7	+12.8	54.6	10 13.6	1.78	5 21	0.7	15 17	3.0
28	23 16 20	114	— 8 48.4	+14.2	55.0	10 55.8	1.74	5 36	0.6	16 28	3.0
29	0 1 59	114	— 2 56.5	+15.0	55.5	11 37.4	1.74	5 49	0.5	17 40	3.0
30	0 48 0	116	+ 3 9.2	+15.3	56.0	12 19.3	1.77	6 2	0.5	18 53	3.1
31	1 35 28	121	+ 9 14.1	+15.0	56.6	13 2.8	1.86	6 15	0.6	20 8	3.2
April 1	2 25 31	129	+15 1.3	+13.8	57.1	13 48.7	1.98	6 30	0.7	21 26	3.3
2	3 19 10	139	+20 10.7	+11.8	57.6	14 38.3	2.15	6 48	0.9	22 48	3.4
3	4 17 8	150	+24 19.3	+ 8.7	58.0	15 32.2	2.34	7 13	1.2	—	—
4	5 19 20	160	+27 2.8	+ 4.7	58.5	16 30.3	2.49	7 46	1.7	0 9	3.3
5	6 24 34	165	+28 0.2	0.0	58.9	17 31.4	2.58	8 34	2.4	1 25	2.9
6	7 30 36	164	+27 0.5	— 4.9	59.2	18 33.3	2.56	9 39	3.0	2 29	2.3
7	8 35 2	158	+24 6.9	— 9.4	59.5	19 33.7	2.46	10 57	3.4	3 17	1.7
8	9 36 16	149	+19 35.6	—13.0	59.7	20 30.8	2.30	12 23	3.6	3 52	1.2
9	10 33 52	140	+13 50.8	—15.5	59.7	21 24.3	2.16	13 51	3.6	4 17	0.9
10	11 28 22	133	+ 7 19.4	—16.9	59.5	22 14.7	2.05	15 17	3.5	4 37	0.8
11	12 20 51	130	+ 0 27.5	—17.2	59.2	23 3.1	1.99	16 41	3.5	4 53	0.6
12	13 12 29	129	— 6 20.2	—16.6	58.7	23 50.7	1.98	18 3	3.4	5 8	0.6
13	—	—	—	—	—	—	—	19 25	3.4	5 23	0.6
14	14 4 26	131	—12 41.4	—15.0	58.0	0 38.6	2.02	20 46	3.4	5 39	0.7
15	14 57 34	135	—18 15.6	—12.7	57.3	1 27.6	2.08	22 6	3.2	5 58	0.9
16	15 52 22	139	—22 45.4	— 9.7	56.5	2 18.3	2.15	23 22	3.0	6 22	1.2
17	16 48 45	143	—25 57.0	— 6.2	55.8	3 10.6	2.21	—	—	6 54	1.5
18	17 46 3	143	—27 41.6	— 2.5	55.2	4 3.8	2.22	0 31	2.6	7 35	1.9
19	18 43 5	141	—27 56.8	+ 1.2	54.7	4 56.8	2.19	1 28	2.1	8 27	2.4
20	19 38 41	136	—26 46.4	+ 4.6	54.4	5 48.3	2.10	2 11	1.6	9 29	2.7
21	20 31 58	130	—24 19.1	+ 7.6	54.2	6 37.5	2.00	2 44	1.2	10 38	2.9
22	21 22 38	123	—20 46.1	+10.1	54.3	7 24.1	1.89	3 8	0.9	11 49	3.0
23	22 10 56	118	—16 18.9	+12.1	54.5	8 8.3	1.80	3 27	0.7	13 0	3.0
24	22 57 28	115	—11 8.8	+13.7	54.9	8 50.8	1.74	3 43	0.6	14 11	3.0
25	23 43 6	114	— 5 26.8	+14.8	55.4	9 32.4	1.73	3 56	0.5	15 22	3.0
26	0 28 52	116	+ 0 36.0	+15.4	56.0	10 14.1	1.76	4 9	0.5	16 35	3.1
27	1 15 56	120	+ 6 46.2	+15.4	56.7	10 57.1	1.84	4 22	0.6	17 50	3.2
28	2 5 27	128	+12 48.0	+14.6	57.3	11 42.6	1.96	4 36	0.6	19 8	3.3
29	2 58 35	138	+18 21.1	+13.0	57.9	12 31.6	2.13	4 53	0.8	20 30	3.5
30	3 56 12	150	+23 0.9	+10.2	58.4	13 25.1	2.33	5 16	1.1	21 54	3.4
Mai 1	4 58 23	160	+26 20.5	+ 6.3	58.8	14 23.2	2.50	5 46	1.5	23 14	3.1
2	6 4 2	167	+27 55.5	+ 1.5	59.1	15 24.8	2.60	6 30	2.2	—	—
3	7 10 50	166	+27 31.7	— 3.5	59.3	16 27.5	2.60	7 30	2.8	0 23	2.6

Tag		Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite
		0h Welt-Zeit									
1930		h m s	m s	° ′ ″	′ ″	′ ″	″	′ ″	″	°	°
Mai	3	6 26 57	63 49	+28 1.0	1 0.0	59 10.4	7.2	16 8.9	1.9	95.963	+4.706
	4	7 30 46	61 49	+27 1.0	2 44.8	59 17.6	1.6	16 10.8	0.5	110.184	+5.143
	5	8 32 35	58 30	+24 16.2	4 13.2	59 19.2	3.6	16 11.3	1.0	124.435	+5.267
	6	9 31 5	54 53	+20 3.0	5 19.9	59 15.6	8.3	16 10.3	2.3	138.667	+5.068
	7	10 25 58	51 51	+14 43.1	6 3.9	59 7.3	13.0	16 8.0	3.5	152.840	+4.562
	8	11 17 49	49 48	+ 8 39.2	6 26.3	58 54.3	17.7	16 4.5	4.8	166.917	+3.785
	9	12 7 37	48 54	+ 2 12.9	6 28.6	58 36.6	22.5	15 59.7	6.2	180.865	+2.790
	10	12 56 31	49 4	− 4 15.7	6 12.3	58 14.1	27.2	15 53.5	7.4	194.654	+1.644
	11	13 45 35	50 11	−10 28.0	5 38.0	57 46.9	31.1	15 46.1	8.5	208.253	+0.420
	12	14 35 46	51 54	−16 6.0	4 46.9	57 15.8	33.8	15 37.6	9.2	221.637	−0.807
	13	15 27 40	53 46	−20 52.9	3 41.1	56 42.0	34.8	15 28.4	9.4	234.785	−1.969
	14	16 21 26	55 13	−24 34.0	2 23.6	56 7.2	33.4	15 19.0	9.2	247.683	−3.005
	15	17 16 39	55 44	−26 57.6	0 59.9	55 33.8	30.1	15 9.8	8.1	260.331	−3.872
	16	18 12 23	55 0	−27 57.5	0 23.6	55 3.7	24.4	15 1.7	6.7	272.742	−4.538
	17	19 7 23	53 11	−27 33.9	1 41.5	54 39.3	17.0	14 55.0	4.6	284.944	−4.984
	18	20 0 34	50 43	−25 52.4	2 49.6	54 22.3	8.2	14 50.4	2.3	296.981	−5.204
	19	20 51 17	48 9	−23 2.8	3 46.5	54 14.1	1.7	14 48.1	0.5	308.907	−5.196
	20	21 39 26	45 57	−19 16.3	4 32.5	54 15.8	12.1	14 48.6	3.3	320.790	−4.966
	21	22 25 23	44 27	−14 43.8	5 8.4	54 27.9	22.1	14 51.9	6.0	332.705	−4.522
	22	23 9 50	43 49	− 9 35.4	5 34.8	54 50.0	31.5	14 57.9	8.6	344.731	−3.876
	23	23 53 39	44 13	− 4 0.6	5 51.3	55 21.5	39.3	15 6.5	10.7	356.945	−3.046
	24	0 37 52	45 44	+ 1 50.7	5 56.4	56 0.8	44.6	15 17.2	12.2	9.422	−2.056
	25	1 23 36	48 26	+ 7 47.1	5 46.9	56 45.4	47.0	15 29.4	12.8	22.223	−0.940
	26	2 12 2	52 12	+13 34.0	5 18.5	57 32.4	45.5	15 42.2	12.4	35.391	+0.256
	27	3 4 14	56 46	+18 52.5	4 26.4	58 17.9	40.3	15 54.6	10.9	48.942	+1.469
	28	4 1 0	61 20	+23 18.9	3 8.2	58 58.2	31.7	16 5.5	8.7	62.860	+2.626
	29	5 2 20	64 42	+26 27.1	1 26.2	59 29.9	20.7	16 14.2	5.6	77.093	+3.645
	30	6 7 2	65 43	+27 53.3	0 29.0	59 50.6	8.6	16 19.8	2.4	91.558	+4.448
	31	7 12 45	64 4	+27 24.3	2 22.0	59 59.2	2.9	16 22.2	0.8	106.150	+4.969
Juni	1	8 16 49	60 31	+25 2.3	3 58.2	59 56.3	12.7	16 21.4	3.5	120.758	+5.169
	2	9 17 20	56 19	+21 4.1	5 10.2	59 43.6	20.3	16 17.9	5.5	135.278	+5.036
	3	10 13 39	52 35	+15 53.9	5 56.7	59 23.3	25.3	16 12.4	6.9	149.633	+4.589
	4	11 6 14	49 53	+ 9 57.2	6 20.3	58 58.0	28.4	16 5.5	7.7	163.771	+3.868
	5	11 56 7	48 25	+ 3 36.9	6 24.2	58 29.6	29.9	15 57.8	8.2	177.669	+2.930
	6	12 44 32	48 9	− 2 47.3	6 10.9	57 59.7	30.5	15 49.6	8.3	191.325	+1.840
	7	13 32 41	48 57	− 8 58.2	5 41.4	57 29.2	30.6	15 41.3	8.3	204.747	+0.666
	8	14 21 38	50 33	−14 39.6	4 56.7	56 58.6	30.3	15 33.0	8.3	217.949	−0.522
	9	15 12 11	52 33	−19 36.3	3 57.4	56 28.3	29.5	15 24.7	8.0	230.947	−1.663
	10	16 4 44	54 23	−23 33.7	2 45.4	55 58.8	28.3	15 16.7	7.7	243.749	−2.700
	11	16 59 7	55 28	−26 19.1	1 24.8	55 30.5	26.0	15 9.0	7.1	256.363	−3.586
	12	17 54 35	55 19	−27 43.9	0 1.0	55 4.5	22.7	15 1.9	6.2	268.798	−4.286
	13	18 49 54		−27 44.9		54 41.8		14 55.7		281.061	−4.777

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1930	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Mai 3	7 10 50	166	+27 31.7	− 3.5	59.3	16 27.5	2.60	7 30	2.8	0 23	2.6
4	8 16 4	159	+25 10.6	− 8.1	59.3	17 28.6	2.48	8 45	3.3	1 17	1.9
5	9 17 51	149	+21 8.5	−11.9	59.3	18 26.3	2.32	10 10	3.6	1 56	1.4
6	10 15 33	140	+15 49.4	−14.5	59.2	19 19.9	2.15	11 36	3.6	2 23	1.0
7	11 9 42	132	+ 9 39.4	−16.1	58.9	20 9.9	2.03	13 1	3.5	2 44	0.8
8	12 1 23	127	+ 3 2.4	−16.8	58.7	20 57.6	1.95	14 23	3.4	3 0	0.6
9	12 51 54	126	− 3 39.4	−16.6	58.3	21 44.0	1.93	15 43	3.3	3 15	0.6
10	13 42 31	128	−10 5.7	−15.5	57.8	22 30.5	1.96	17 3	3.3	3 29	0.6
11	14 34 17	132	−15 56.8	−13.6	57.3	23 18.2	2.02	18 23	3.3	3 44	0.7
12	—	—	—	—	—	—	—	19 43	3.3	4 1	0.8
13	15 27 57	137	−20 54.3	−11.0	56.7	0 7.8	2.11	21 1	3.1	4 23	1.0
14	16 23 41	142	−24 41.5	− 7.8	56.1	0 59.5	2.19	22 14	2.8	4 51	1.4
15	17 21 1	144	−27 5.3	− 4.1	55.5	1 52.7	2.24	23 17	2.3	5 28	1.8
16	18 18 48	144	−27 59.0	− 0.3	55.0	2 46.4	2.23	—	—	6 16	2.2
17	19 15 37	140	−27 23.3	+ 3.3	54.6	3 39.1	2.16	0 6	1.8	7 15	2.6
18	20 10 16	133	−25 25.5	+ 6.5	54.3	4 29.7	2.05	0 44	1.4	8 22	2.9
19	21 2 7	126	−22 17.4	+ 9.1	54.2	5 17.5	1.93	1 11	1.0	9 32	2.9
20	21 51 12	120	−18 11.6	+11.3	54.3	6 2.5	1.82	1 32	0.8	10 43	3.0
21	22 38 1	115	−13 20.2	+12.9	54.6	6 45.3	1.75	1 48	0.6	11 54	2.9
22	23 23 26	113	− 7 53.9	+14.2	55.0	7 26.6	1.71	2 2	0.6	13 4	2.9
23	0 8 31	113	− 2 3.0	+15.0	55.6	8 7.7	1.72	2 15	0.5	14 15	3.0
24	0 54 27	117	+ 4 1.8	+15.3	56.3	8 49.5	1.78	2 28	0.5	15 28	3.1
25	1 42 30	124	+10 7.3	+15.0	57.1	9 33.5	1.89	2 41	0.6	16 44	3.2
26	2 34 1	134	+15 56.1	+13.9	57.9	10 21.0	2.07	2 57	0.8	18 4	3.4
27	3 30 11	147	+21 5.1	+11.7	58.6	11 13.0	2.27	3 17	1.0	19 29	3.5
28	4 31 35	160	+25 5.8	+ 8.2	59.3	12 10.3	2.49	3 44	1.4	20 53	3.4
29	5 37 38	169	+27 28.3	+ 3.5	59.7	13 12.3	2.66	4 23	2.0	22 10	2.9
30	6 46 11	172	+27 50.2	− 1.8	60.0	14 16.7	2.69	5 18	2.7	23 11	2.2
31	7 54 3	166	+26 5.8	− 6.8	60.0	15 20.5	2.60	6 31	3.3	23 56	1.6
Juni 1	8 58 29	156	+22 29.1	−11.0	59.8	16 20.8	2.42	7 55	3.6	—	—
2	9 58 16	144	+17 26.6	−14.0	59.5	17 16.5	2.22	9 23	3.6	0 27	1.1
3	10 53 40	134	+11 27.5	−15.8	59.1	18 7.8	2.06	10 49	3.5	0 50	0.8
4	11 45 44	127	+ 4 58.2	−16.5	58.6	18 55.8	1.95	12 12	3.4	1 7	0.7
5	12 35 54	124	− 1 39.0	−16.4	58.1	19 41.9	1.90	13 31	3.3	1 22	0.6
6	13 25 33	125	− 8 4.9	−15.6	57.6	20 27.5	1.90	14 50	3.3	1 37	0.6
7	14 15 54	128	−14 2.2	−14.1	57.0	21 13.8	1.96	16 8	3.3	1 51	0.6
8	15 7 58	133	−19 14.0	−11.8	56.5	22 1.7	2.04	17 26	3.2	2 7	0.7
9	16 2 12	138	−23 24.0	− 8.9	56.0	22 51.9	2.14	18 44	3.2	2 26	0.9
10	16 58 31	143	−26 17.7	− 5.5	55.5	23 44.1	2.21	19 59	2.9	2 52	1.2
11	—	—	—	—	—	—	—	21 5	2.5	3 24	1.6
12	17 56 2	144	−27 44.9	− 1.8	55.1	0 37.6	2.23	22 0	2.0	4 8	2.1
13	18 53 22	142	−27 42.3	+ 2.0	54.7	1 30.8	2.19	22 42	1.5	5 4	2.5

Tag	0h Welt-Zeit Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′	Diff. ° ′	Parallaxe ′ ″	Diff. ″	Halbmesser ′ ″	Diff. ″	Länge °	Breite °
1930										
Juni 13	18 49 54	53 56	—27 44.9	1 19.1	54 41.8	17.9	14 55.7	4.9	281.061	—4.777
14	19 43 50	51 36	—26 25.8	2 30.7	54 23.9	11.9	14 50.8	3.2	293.171	—5.045
15	20 35 26	48 55	—23 55.1	3 30.8	54 12.0	4.5	14 47.6	1.3	305.155	—5.087
16	21 24 21	46 24	—20 24.3	4 18.9	54 7.5	4.1	14 46.3	1.2	317.051	—4.908
17	22 10 45	44 28	—16 5.4	4 56.0	54 11.6	13.5	14 47.5	3.7	328.912	—4.519
18	22 55 13	43 22	—11 9.4	5 23.1	54 25.1	23.5	14 51.2	6.3	340.802	—3.934
19	23 38 35	43 15	— 5 46.3	5 40.8	54 48.6	33.2	14 57.5	9.1	352.796	—3.171
20	0 21 50	44 17	— 0 5.5	5 49.0	55 21.8	42.0	15 6.6	11.4	4.976	—2.254
21	1 6 7	46 29	+ 5 43.5	5 45.3	56 3.8	49.2	15 18.0	13.4	17.424	—1.211
22	1 52 36	49 56	+11 28.8	5 26.1	56 53.0	53.4	15 31.4	14.6	30.221	—0.080
23	2 42 32	54 28	+16 54.9	4 46.5	57 46.4	53.7	15 46.0	14.6	43.430	+1.089
24	3 37 0	59 35	+21 41.4	3 41.2	58 40.1	49.4	16 0.6	13.5	57.092	+2.233
25	4 36 35	64 11	+25 22.6	2 8.5	59 29.5	40.2	16 14.1	10.9	71.207	+3.277
26	5 40 46	66 51	+27 31.1	0 14.3	60 9.7	26.7	16 25.0	7.3	85.727	+4.139
27	6 47 37	66 36	+27 45.4	1 46.6	60 36.4	10.6	16 32.3	2.9	100.555	+4.742
28	7 54 13	63 39	+25 58.8	3 36.3	60 47.0	5.8	16 35.2	1.6	115.552	+5.028
29	8 57 52	59 20	+22 22.5	5 1.2	60 41.2	20.6	16 33.6	5.6	130.557	+4.969
30	9 57 12	55 0	+17 21.3	5 56.7	60 20.6	31.9	16 28.0	8.7	145.421	+4.574
Juli 1	10 52 12	51 33	+11 24.6	6 24.9	59 48.7	39.2	16 19.3	10.7	160.022	+3.887
2	11 43 45	49 20	+ 4 59.7	6 30.1	59 9.5	42.5	16 8.6	11.6	174.287	+2.969
3	12 33 5	48 24	— 1 30.4	6 16.8	58 27.0	42.8	15 57.0	11.6	188.189	+1.896
4	13 21 29	48 38	— 7 47.2	5 47.8	57 44.2	40.7	15 45.4	11.1	201.736	+0.741
5	14 10 7	49 50	—13 35.0	5 4.6	57 3.5	37.5	15 34.3	10.2	214.961	—0.426
6	14 59 57	51 35	—18 39.6	4 8.3	56 26.0	33.5	15 24.1	9.1	227.907	—1.545
7	15 51 32	53 25	—22 47.9	3 0.1	55 52.5	29.3	15 15.0	8.0	240.619	—2.565
8	16 44 57	54 46	—25 48.0	1 42.9	55 23.2	25.3	15 7.0	6.9	253.137	—3.442
9	17 39 43	55 5	—27 30.9	0 20.9	54 57.9	21.0	15 0.1	5.8	265.492	—4.144
10	18 34 48	54 9	—27 51.8	1 0.0	54 36.9	16.8	14 54.3	4.5	277.709	—4.645
11	19 28 57	52 10	—26 51.8	2 13.9	54 20.1	11.9	14 49.8	3.3	289.807	—4.930
12	20 21 7	49 36	—24 37.9	3 17.3	54 8.2	6.7	14 46.5	1.8	301.803	—4.993
13	21 10 43	46 58	—21 20.6	4 8.3	54 1.5	0.4	14 44.7	0.1	313.718	—4.838
14	21 57 41	44 46	—17 12.3	4 47.3	54 1.1	6.6	14 44.6	1.8	325.580	—4.472
15	22 42 27	43 17	—12 25.0	5 15.4	54 7.7	14.6	14 46.4	4.0	337.427	—3.914
16	23 25 44	42 40	— 7 9.6	5 33.5	54 22.3	23.3	14 50.4	6.3	349.309	—3.183
17	0 8 24	43 6	— 1 36.1	5 42.2	54 45.6	32.3	14 56.7	8.8	1.289	—2.304
18	0 51 30	44 40	+ 4 6.1	5 40.4	55 17.9	41.2	15 5.5	11.2	13.440	—1.308
19	1 36 10	47 27	+ 9 46.5	5 26.2	55 59.1	49.0	15 16.7	13.4	25.843	—0.230
20	2 23 37	51 26	+15 12.7	4 55.4	56 48.1	54.8	15 30.1	14.9	38.584	+0.889
21	3 15 3	56 21	+20 8.1	4 3.0	57 42.9	57.3	15 45.0	15.6	51.738	+1.995
22	4 11 24	61 27	+24 11.1	2 44.9	58 40.2	55.3	16 0.6	15.1	65.363	+3.028
23	5 12 51	65 32	+26 56.0	1 1.6	59 35.5	48.0	16 15.7	13.1	79.483	+3.913
24	6 18 23		+27 57.6		60 23.5		16 28.8		94.070	+4.575

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1930	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juni 13	18 53 22	142	—27 42.3	+ 2.0	54.7	1 30.8	2.19	22 42	1.5	5 4	2.5
14	19 49 3	136	—26 13.9	+ 5.3	54.4	2 22.4	2.10	23 12	1.1	6 8	2.8
15	20 42 5	129	—23 30.3	+ 8.2	54.2	3 11.4	1.98	23 36	0.9	7 18	2.9
16	21 32 9	122	—19 44.6	+10.5	54.1	3 57.4	1.86	23 54	0.7	8 28	2.9
17	22 19 33	116	—15 10.2	+12.3	54.2	4 40.7	1.76	—	—	9 39	2.9
18	23 4 59	112	— 9 59.2	+13.6	54.5	5 22.1	1.69	0 8	0.6	10 48	2.9
19	23 49 26	111	— 4 21.8	+14.5	54.9	6 2.5	1.68	0 21	0.5	11 57	2.9
20	0 34 5	113	+ 1 31.9	+14.9	55.5	6 43.1	1.71	0 33	0.5	13 8	3.0
21	1 20 11	118	+ 7 31.2	+14.9	56.3	7 25.1	1.80	0 46	0.6	14 21	3.1
22	2 9 8	127	+13 22.8	+14.3	57.2	8 10.0	1.95	1 0	0.7	15 38	3.3
23	3 2 20	140	+18 48.1	+12.7	58.1	8 59.1	2.16	1 18	0.9	17 0	3.5
24	4 0 57	154	+23 22.1	+ 9.9	59.0	9 53.6	2.39	1 41	1.2	18 25	3.5
25	5 5 15	167	+26 33.9	+ 5.8	59.8	10 53.8	2.61	2 14	1.7	19 46	3.2
26	6 13 58	175	+27 53.4	+ 0.6	60.4	11 58.4	2.75	3 2	2.4	20 57	2.6
27	7 24 7	174	+27 2.0	— 4.9	60.7	13 4.5	2.73	4 8	3.1	21 50	1.9
28	8 32 12	165	+24 3.2	— 9.8	60.8	14 8.4	2.58	5 31	3.6	22 27	1.3
29	9 35 49	153	+19 20.7	—13.5	60.5	15 7.9	2.38	7 1	3.8	22 53	1.0
30	10 34 24	141	+13 27.3	—15.7	60.0	16 2.4	2.17	8 31	3.7	23 13	0.8
Juli 1	11 28 45	132	+ 6 55.4	—16.7	59.4	16 52.7	2.02	9 58	3.5	23 29	0.6
2	12 20 12	126	+ 0 11.9	—16.7	58.6	17 40.1	1.94	11 20	3.4	23 44	0.6
3	13 10 16	125	— 6 21.9	—16.0	57.9	18 26.1	1.90	12 40	3.3	23 58	0.6
4	14 0 20	126	—12 28.4	—14.5	57.2	19 12.1	1.93	13 58	3.2	—	—
5	14 51 30	130	—17 52.2	—12.4	56.5	19 59.2	2.00	15 16	3.2	0 13	0.7
6	15 44 33	135	—22 18.5	— 9.7	55.9	20 48.1	2.08	16 33	3.2	0 32	0.9
7	16 39 39	140	—25 33.7	— 6.5	55.4	21 39.2	2.16	17 48	3.0	0 54	1.1
8	17 36 20	143	—27 26.9	— 2.9	55.0	22 31.8	2.21	18 57	2.6	1 24	1.5
9	18 33 27	142	—27 52.2	+ 0.8	54.6	23 24.8	2.20	19 55	2.1	2 4	1.9
10	—	—	—	—	—	—	—	20 40	1.6	2 56	2.4
11	19 29 34	138	—26 50.6	+ 4.3	54.3	0 16.8	2.13	21 14	1.2	3 57	2.7
12	20 23 28	131	—24 30.0	+ 7.3	54.1	1 6.6	2.02	21 40	0.9	5 5	2.9
13	21 14 30	124	—21 2.7	+ 9.8	54.0	1 53.6	1.90	21 59	0.7	6 16	3.0
14	22 2 41	117	—16 42.5	+11.8	54.0	2 37.7	1.78	22 14	0.6	7 27	2.9
15	22 48 31	112	—11 42.7	+13.1	54.2	3 19.5	1.71	22 28	0.5	8 36	2.9
16	23 32 51	110	— 6 15.1	+14.1	54.4	3 59.8	1.66	22 40	0.5	9 45	2.9
17	0 16 42	110	— 0 30.0	+14.6	54.9	4 39.6	1.66	22 52	0.5	10 54	2.9
18	1 1 15	113	+ 5 22.3	+14.7	55.4	5 20.1	1.72	23 5	0.6	12 4	3.0
19	1 47 48	120	+11 10.6	+14.2	56.2	6 2.6	1.83	23 20	0.7	13 18	3.2
20	2 37 46	130	+16 40.5	+13.1	57.1	6 48.4	2.00	23 40	1.0	14 36	3.3
21	3 32 27	144	+21 32.4	+11.0	58.0	7 39.1	2.22	—	—	15 57	3.4
22	4 32 50	158	+25 20.5	+ 7.8	59.0	8 35.3	2.46	0 7	1.4	17 20	3.3
23	5 38 44	171	+27 34.4	+ 3.2	59.9	9 37.1	2.67	0 47	2.0	18 36	2.9
24	6 48 20	176	+27 46.9	— 2.2	60.7	10 42.6	2.76	1 44	2.8	19 37	2.2

Tag	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite
	0h Welt-Zeit									
1930	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Juli 24	6 18 23	67 11	+27 57.6	0 58.1	60 23.5	35.1	16 28.8	9.5	94.070	+4.575
25	7 25 34	65 55	+26 59.5	2 57.6	60 58.6	17.8	16 38.3	4.9	109.040	+4.944
26	8 31 29	62 27	+24 1.9	4 39.1	61 16.4	1.5	16 43.2	0.4	124.250	+4.973
27	9 33 56	58 9	+19 22.8	5 51.3	61 14.9	20.3	16 42.8	5.5	139.520	+4.648
28	10 32 5	54 18	+13 31.5	6 32.2	60 54.6	35.9	16 37.3	9.8	154.664	+3.999
29	11 26 23	51 28	+ 6 59.3	6 44.8	60 18.7	46.6	16 27.5	12.7	169.526	+3.088
30	12 17 51	49 55	+ 0 14.5	6 34.0	59 32.1	52.0	16 14.8	14.2	183.998	+1.996
31	13 7 46	49 34	− 6 19.5	6 4.8	58 40.1	52.9	16 0.6	14.4	198.032	+0.813
Aug. 1	13 57 20	50 13	−12 24.3	5 20.6	57 47.2	50.2	15 46.2	13.7	211.629	−0.383
2	14 47 33	51 34	−17 44.9	4 23.5	56 57.0	45.0	15 32.5	12.2	224.824	−1.523
3	15 39 7	53 8	−22 8.4	3 15.5	56 12.0	38.5	15 20.3	10.5	237.674	−2.556
4	16 32 15	54 25	−25 23.9	1 59.0	55 33.5	31.7	15 9.8	8.7	250.241	−3.440
5	17 26 40	54 51	−27 22.9	0 37.8	55 1.8	24.9	15 1.1	6.7	262.586	−4.145
6	18 21 31	54 12	−28 0.7	0 43.2	54 36.9	18.4	14 54.4	5.1	274.764	−4.650
7	19 15 43	52 29	−27 17.5	1 58.6	54 18.5	12.5	14 49.3	3.4	286.819	−4.941
8	20 8 12	50 6	−25 18.9	3 4.8	54 6.0	7.0	14 45.9	1.9	298.787	−5.012
9	20 58 18	47 33	−22 14.1	3 59.0	53 59.0	1.5	14 44.0	0.4	310.694	−4.863
10	21 45 51	45 15	−18 15.1	4 41.2	53 57.5	3.9	14 43.6	1.1	322.565	−4.503
11	22 31 6	43 32	−13 33.9	5 11.6	54 1.4	9.6	14 44.7	2.6	334.425	−3.948
12	23 14 38	42 37	− 8 22.3	5 31.2	54 11.0	15.8	14 47.3	4.3	346.302	−3.218
13	23 57 15	42 37	− 2 51.1	5 40.5	54 26.8	22.6	14 51.6	6.2	358.234	−2.343
14	0 39 52	43 38	+ 2 49.4	5 39.3	54 49.4	29.9	14 57.8	8.1	10.267	−1.353
15	1 23 30	45 46	+ 8 28.7	5 26.6	55 19.3	37.3	15 5.9	10.2	22.459	−0.286
16	2 9 16	48 59	+13 55.3	4 59.6	55 56.6	44.4	15 16.1	12.1	34.877	+0.816
17	2 58 15	53 13	+18 54.9	4 15.0	56 41.0	50.4	15 28.2	13.7	47.595	+1.904
18	3 51 28	57 59	+23 9.9	3 8.6	57 31.4	54.2	15 41.9	14.8	60.684	+2.926
19	4 49 27	62 24	+26 18.5	1 38.9	58 25.6	54.4	15 56.7	14.8	74.206	+3.819
20	5 51 51	65 16	+27 57.4	0 10.5	59 20.0	50.0	16 11.5	13.6	88.196	+4.518
21	6 57 7	65 39	+27 46.9	2 8.2	60 10.0	40.2	16 25.1	11.0	102.651	+4.957
22	8 2 46	63 39	+25 38.7	3 58.8	60 50.2	25.2	16 36.1	6.8	117.512	+5.079
23	9 6 25	60 14	+21 39.9	5 27.6	61 15.4	6.5	16 42.9	1.8	132.665	+4.852
24	10 6 39	56 37	+16 12.3	6 26.8	61 21.9	13.4	16 44.7	3.7	147.946	+4.280
25	11 3 16	53 41	+ 9 45.5	6 55.0	61 8.5	31.7	16 41.0	8.6	163.172	+3.405
26	11 56 57	51 50	+ 2 50.5	6 54.8	60 36.8	45.7	16 32.4	12.4	178.169	+2.304
27	12 48 47	51 9	− 4 4.3	6 31.0	59 51.1	54.3	16 20.0	14.8	192.804	+1.073
28	13 39 56	51 27	−10 35.3	5 47.8	58 56.8	57.4	16 5.2	15.7	206.999	−0.192
29	14 31 23	52 29	−16 23.1	4 49.6	57 59.4	55.8	15 49.5	15.2	220.727	−1.407
30	15 23 52	53 49	−21 12.7	3 39.3	57 3.6	50.6	15 34.3	13.8	234.008	−2.507
31	16 17 41	54 54	−24 52.0	2 20.6	56 13.0	43.2	15 20.5	11.7	246.892	−3.446
Sept. 1	17 12 35	55 15	−27 12.6	0 57.5	55 29.8	34.7	15 8.8	9.5	259.443	−4.192
2	18 7 50	54 37	−28 10.1	0 25.2	54 55.1	25.9	14 59.3	7.0	271.734	−4.729
3	19 2 27		−27 44.9		54 29.2		14 52.3		283.832	−5.044

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1930	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Juli 24	6 48 20	176	+27 46.9	— 2.2	60.7	10 42.6	2.76	1 44	2.8	19 37	2.2
25	7 58 20	172	+25 46.2	— 7.7	61.2	11 48.5	2.71	3 0	3.4	20 21	1.6
26	9 5 27	163	+21 43.3	—12.3	61.3	12 51.5	2.53	4 29	3.8	20 52	1.1
27	10 7 58	150	+16 7.1	—15.4	61.1	13 49.9	2.33	6 2	3.9	21 15	0.9
28	11 5 48	140	+ 9 33.7	—17.1	60.6	14 43.6	2.16	7 34	3.7	21 34	0.7
29	12 0 0	132	+ 2 36.7	—17.5	59.8	15 33.8	2.03	9 0	3.5	21 49	0.6
30	12 51 58	128	— 4 16.4	—16.8	58.9	16 21.7	1.97	10 24	3.4	22 4	0.6
31	13 43 9	128	—10 44.0	—15.4	58.0	17 8.8	1.97	11 45	3.3	22 19	0.7
Aug. 1	14 34 46	130	—16 28.8	—13.3	57.2	17 56.3	2.00	13 4	3.3	22 36	0.8
2	15 27 42	134	—21 16.2	—10.6	56.4	18 45.2	2.08	14 23	3.2	22 58	1.0
3	16 22 24	139	—24 53.5	— 7.4	55.7	19 35.8	2.14	15 39	3.1	23 25	1.3
4	17 18 36	142	—27 10.4	— 3.9	55.1	20 27.9	2.19	16 50	2.8	—	—
5	18 15 28	142	—28 0.5	— 0.3	54.7	21 20.7	2.19	17 51	2.3	0 2	1.8
6	19 11 44	139	—27 23.4	+ 3.3	54.3	22 12.9	2.14	18 40	1.8	0 50	2.2
7	20 6 10	133	—25 24.9	+ 6.5	54.1	23 3.2	2.05	19 17	1.3	1 49	2.6
8	20 58 0	126	—22 15.5	+ 9.2	54.0	23 51.0	1.93	19 44	1.0	2 55	2.9
9	—	—	—	—	—	—	—	20 5	0.8	4 6	3.0
10	21 47 0	119	—18 8.5	+11.3	54.0	0 35.9	1.82	20 21	0.6	5 17	2.9
11	22 33 30	114	—13 17.6	+12.9	54.0	1 18.4	1.72	20 35	0.5	6 26	2.9
12	23 18 11	110	— 7 55.5	+13.9	54.2	1 59.0	1.67	20 47	0.5	7 36	2.9
13	0 1 56	109	— 2 13.9	+14.5	54.5	2 38.7	1.65	20 59	0.5	8 44	2.9
14	0 45 48	111	+ 3 36.5	+14.6	54.9	3 18.5	1.68	21 11	0.5	9 53	2.9
15	1 30 56	116	+ 9 24.3	+14.3	55.4	3 59.6	1.76	21 25	0.6	11 5	3.0
16	2 18 36	124	+14 56.9	+13.3	56.1	4 43.2	1.88	21 42	0.8	12 19	3.2
17	3 10 4	135	+19 58.1	+11.6	56.9	5 30.6	2.07	22 5	1.2	13 38	3.3
18	4 6 25	148	+24 7.4	+ 9.0	57.8	6 22.8	2.29	22 38	1.7	14 58	3.3
19	5 8 7	161	+26 59.3	+ 5.2	58.7	7 20.4	2.51	23 25	2.3	16 15	3.0
20	6 14 25	170	+28 6.9	+ 0.3	59.6	8 22.6	2.66	—	—	17 22	2.5
21	7 23 4	172	+27 10.4	— 5.1	60.5	9 27.2	2.69	0 30	3.1	18 13	1.8
22	8 31 1	167	+24 6.7	—10.1	61.1	10 31.0	2.61	1 53	3.6	18 49	1.3
23	9 35 48	157	+19 11.9	—14.2	61.4	11 31.7	2.45	3 25	3.9	19 16	1.0
24	10 36 29	147	+12 56.7	—16.8	61.3	12 28.3	2.27	4 59	3.9	19 36	0.8
25	11 33 26	139	+ 5 56.2	—18.0	60.9	13 21.1	2.14	6 30	3.7	19 52	0.7
26	12 27 45	134	— 1 16.4	—17.9	60.2	14 11.3	2.06	7 57	3.6	20 8	0.6
27	13 20 46	132	— 8 12.8	—16.7	59.3	15 0.3	2.03	9 22	3.5	20 23	0.7
28	14 13 45	133	—14 30.4	—14.7	58.3	15 49.2	2.05	10 45	3.4	20 40	0.8
29	15 7 39	136	—19 51.0	—12.0	57.3	16 39.0	2.10	12 7	3.4	21 0	1.0
30	16 2 59	140	—24 0.1	— 8.7	56.4	17 30.3	2.16	13 27	3.2	21 26	1.3
31	16 59 39	143	—26 47.0	— 5.1	55.7	18 22.8	2.21	14 41	2.9	22 0	1.6
Sept. 1	17 56 58	143	—28 5.3	— 1.4	55.0	19 16.1	2.22	15 47	2.5	22 44	2.1
2	18 53 46	140	—27 54.3	+ 2.3	54.5	20 8.8	2.17	16 40	1.9	23 40	2.5
3	19 48 53	135	—26 19.1	+ 5.6	54.2	20 59.8	2.08	17 20	1.5	—	—

Tag	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
	0h Welt-Zeit									
1930	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Sept. 3	19 2 27	52 56	—27 44.9	1 42.6	54 29.2	17.4	14 52.3	4.8	283.832	—5.044
4	19 55 23	50 38	—26 2.3	2 51.2	54 11.8	9.6	14 47.5	2.6	295.802	—5.135
5	20 46 1	48 5	—23 11.1	3 48.6	54 2.2	2.7	14 44.9	0.7	307.696	—5.003
6	21 34 6	45 46	—19 22.5	4 34.2	53 59.5	3.5	14 44.2	0.9	319.561	—4.656
7	22 19 52	43 59	—14 48.3	5 8.2	54 3.0	8.9	14 45.1	2.4	331.431	—4.107
8	23 3 51	42 54	— 9 40.1	5 31.0	54 11.9	13.7	14 47.5	3.8	343.338	—3.377
9	23 46 45	42 41	— 4 9.1	5 42.8	54 25.6	18.3	14 51.3	5.0	355.310	—2.493
10	0 29 26	43 25	+ 1 33.7	5 43.4	54 43.9	22.9	14 56.3	6.2	7.375	—1.488
11	1 12 51	45 6	+ 7 17.1	5 32.0	55 6.8	27.7	15 2.5	7.5	19.564	—0.402
12	1 57 57	47 49	+12 49.1	5 6.7	55 34.5	32.4	15 10.0	8.9	31.916	+0.718
13	2 45 46	51 25	+17 55.8	4 25.1	56 6.9	37.3	15 18.9	10.1	44.473	+1.824
14	3 37 11	55 34	+22 20.9	3 24.5	56 44.2	41.7	15 29.0	11.4	57.285	+2.863
15	4 32 45	59 36	+25 45.4	2 3.5	57 25.9	44.9	15 40.4	12.2	70.402	+3.778
16	5 32 21	62 35	+27 48.9	0 24.5	58 10.8	45.8	15 52.6	12.5	83.870	+4.511
17	6 34 56	63 40	+28 13.4	1 25.2	58 56.6	43.8	16 5.1	11.9	97.719	+5.006
18	7 38 36	62 40	+26 48.2	3 13.9	59 40.4	37.5	16 17.0	10.3	111.953	+5.212
19	8 41 16	60 9	+23 34.3	4 48.9	60 17.9	26.8	16 27.3	7.3	126.538	+5.092
20	9 41 25	57 8	+18 45.4	6 1.3	60 44.7	12.0	16 34.6	3.2	141.400	+4.632
21	10 38 33	54 30	+12 44.1	6 46.2	60 56.7	5.3	16 37.8	1.4	156.421	+3.851
22	11 33 3	52 45	+ 5 57.9	7 2.7	60 51.4	22.7	16 36.4	6.2	171.455	+2.802
23	12 25 48	52 5	— 1 4.8	6 52.4	60 28.7	37.9	16 30.2	10.3	186.350	+1.570
24	13 17 53	52 24	— 7 57.2	6 18.1	59 50.8	48.8	16 19.9	13.3	200.973	+0.255
25	14 10 17	53 28	—14 15.3	5 23.9	59 2.0	54.7	16 6.6	14.9	215.224	—1.046
26	15 3 45	54 52	—19 39.2	4 13.6	58 7.3	55.5	15 51.7	15.1	229.049	—2.248
27	15 58 37	56 2	—23 52.8	2 52.3	57 11.8	51.9	15 36.6	14.2	242.437	—3.288
28	16 54 39	56 26	—26 45.1	1 25.3	56 19.9	45.3	15 22.4	12.3	255.413	—4.125
29	17 51 5	55 44	—28 10.4	0 1.6	55 34.6	36.7	15 10.1	10.0	268.027	—4.737
30	18 46 49	53 59	—28 8.8	1 22.9	54 57.9	26.9	15 0.1	7.4	280.346	—5.115
Okt. 1	19 40 48	51 30	—26 45.9	2 34.6	54 31.0	17.1	14 52.7	4.6	292.442	—5.258
2	20 32 18	48 48	—24 11.3	3 35.1	54 13.9	7.6	14 48.1	2.1	304.391	—5.171
3	21 21 6	46 19	—20 36.2	4 23.8	54 6.3	1.1	14 46.0	0.3	316.262	—4.862
4	22 7 25	44 24	—16 12.4	5 1.3	54 7.4	8.5	14 46.3	2.3	328.120	—4.346
5	22 51 49	43 13	—11 11.1	5 28.1	54 15.9	14.8	14 48.6	4.1	340.020	—3.641
6	23 35 2	42 54	— 5 43.0	5 44.0	54 30.7	19.7	14 52.7	5.3	352.007	—2.771
7	0 17 56	43 29	+ 0 1.0	5 48.7	54 50.4	23.3	14 58.0	6.4	4.119	—1.767
8	1 1 25	45 3	+ 5 49.7	5 40.9	55 13.7	25.9	15 4.4	7.0	16.385	—0.668
9	1 46 28	47 34	+11 30.6	5 18.6	55 39.6	28.0	15 11.4	7.7	28.828	+0.479
10	2 34 2	50 54	+16 49.2	4 39.3	56 7.6	29.3	15 19.1	8.0	41.466	+1.620
11	3 24 56	54 45	+21 28.5	3 41.2	56 36.9	30.7	15 27.1	8.3	54.315	+2.700
12	4 19 41	58 28	+25 9.7	2 23.4	57 7.6	31.6	15 35.4	8.6	67.390	+3.658
13	5 18 9	61 12	+27 33.1	0 48.9	57 39.2	32.2	15 44.0	8.8	80.706	+4.438
14	6 19 21		+28 22.0		58 11.4		15 52.8		94.274	+4.987

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1930	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Sept. 3	19 48 53	135	−26 19.1	+ 5.6	54.2	20 59.8	2.08	17 20	1.5	—	—
4	20 41 29	128	−23 29.3	+ 8.5	54.0	21 48.4	1.97	17 50	1.1	0 45	2.8
5	21 31 18	121	−19 37.5	+10.8	54.0	22 34.1	1.85	18 12	0.8	1 55	2.9
6	22 18 32	115	−14 57.0	+12.5	54.0	23 17.3	1.75	18 29	0.6	3 6	2.9
7	23 3 48	111	− 9 40.4	+13.8	54.2	23 58.5	1.69	18 43	0.5	4 16	2.9
8	—	—	—	—	—	—	—	18 55	0.5	5 26	2.9
9	23 47 53	110	− 4 0.1	+14.5	54.4	0 38.5	1.66	19 7	0.5	6 35	2.9
10	0 31 46	110	+ 1 52.5	+14.8	54.8	1 18.3	1.67	19 19	0.5	7 44	2.9
11	1 16 30	114	+ 7 45.2	+14.5	55.1	1 59.0	1.73	19 32	0.6	8 56	3.0
12	2 3 10	120	+13 25.1	+13.7	55.6	2 41.6	1.83	19 48	0.8	10 9	3.1
13	2 52 56	129	+18 37.0	+12.2	56.2	3 27.3	1.98	20 8	1.0	11 26	3.2
14	3 46 47	141	+23 2.4	+ 9.8	56.9	4 17.1	2.17	20 36	1.4	12 44	3.2
15	4 45 19	152	+26 19.6	+ 6.5	57.6	5 11.5	2.37	21 16	2.0	14 1	3.1
16	5 48 14	162	+28 5.3	+ 2.2	58.4	6 10.3	2.52	22 12	2.7	15 11	2.6
17	6 54 2	166	+27 59.5	− 2.7	59.2	7 12.0	2.60	23 25	3.3	16 6	2.0
18	8 0 19	164	+25 53.4	− 7.7	59.9	8 14.2	2.57	—	—	16 47	1.5
19	9 4 46	157	+21 53.2	−12.1	60.5	9 14.6	2.46	0 52	3.7	17 16	1.1
20	10 6 3	149	+16 19.2	−15.5	60.9	10 11.7	2.31	2 23	3.8	17 38	0.8
21	11 4 1	141	+ 9 40.2	−17.5	60.9	11 5.6	2.18	3 54	3.8	17 56	0.7
22	11 59 28	136	+ 2 27.7	−18.3	60.7	11 57.0	2.11	5 24	3.7	18 12	0.6
23	12 53 34	135	− 4 47.4	−17.8	60.2	12 47.0	2.07	6 51	3.6	18 26	0.6
24	13 47 31	136	−11 37.3	−16.2	59.4	13 36.9	2.09	8 17	3.6	18 43	0.7
25	14 42 21	139	−17 38.1	−13.7	58.5	14 27.6	2.14	9 42	3.5	19 1	0.9
26	15 38 39	143	−22 30.1	−10.5	57.5	15 19.8	2.21	11 6	3.4	19 25	1.1
27	16 36 24	146	−25 58.7	− 6.8	56.6	16 13.5	2.26	12 25	3.1	19 56	1.5
28	17 34 57	146	−27 55.0	− 2.9	55.8	17 8.0	2.27	13 36	2.7	20 37	2.0
29	18 33 5	144	−28 17.1	+ 1.0	55.1	18 2.0	2.23	14 35	2.2	21 30	2.4
30	19 29 32	138	−27 9.9	+ 4.5	54.6	18 54.4	2.13	15 20	1.6	22 32	2.7
Okt. 1	20 23 21	131	−24 43.5	+ 7.6	54.3	19 44.1	2.01	15 54	1.2	23 42	2.9
2	21 14 10	124	−21 10.8	+10.1	54.1	20 30.9	1.89	16 18	0.9	—	—
3	22 2 13	117	−16 44.8	+12.0	54.1	21 14.8	1.78	16 36	0.7	0 53	3.0
4	22 48 4	113	−11 38.1	+13.5	54.2	21 56.6	1.71	16 51	0.6	2 4	2.9
5	23 32 34	110	− 6 2.5	+14.4	54.5	22 37.1	1.67	17 4	0.5	3 14	2.9
6	0 16 39	111	− 0 9.4	+14.9	54.8	23 17.1	1.67	17 15	0.5	4 24	2.9
7	1 1 21	113	+ 5 49.2	+14.9	55.2	23 57.7	1.72	17 27	0.5	5 33	2.9
8	—	—	—	—	—	—	—	17 40	0.6	6 44	3.0
9	1 47 45	119	+11 39.9	+14.2	55.7	0 40.1	1.82	17 55	0.7	7 58	3.1
10	2 36 56	127	+17 7.0	+12.9	56.2	1 25.2	1.95	18 13	0.9	9 14	3.2
11	3 29 52	138	+21 51.8	+10.7	56.7	2 14.1	2.13	18 38	1.3	10 34	3.3
12	4 27 5	149	+25 33.1	+ 7.6	57.2	3 7.2	2.30	19 14	1.8	11 52	3.1
13	5 28 23	158	+27 48.5	+ 3.6	57.7	4 4.4	2.46	20 4	2.4	13 4	2.7
14	6 32 30	162	+28 19.1	− 1.1	58.3	5 4.4	2.53	21 10	3.0	14 3	2.1

Tag	0ʰ Welt-Zeit									
	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite
1930	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Okt. 14	6 19 21	62 14	+28 22.0	0 55.7	58 11.4	31.9	15 52.8	8.7	94.274	+4.987
15	7 21 35	61 20	+27 26.3	2 39.8	58 43.3	30.2	16 1.5	8.2	108.097	+5.261
16	8 22 55	59 2	+24 46.5	4 13.3	59 13.5	26.1	16 9.7	7.1	122.170	+5.228
17	9 21 57	56 14	+20 33.2	5 28.7	59 39.6	19.3	16 16.8	5.3	136.470	+4.875
18	10 18 11	53 44	+15 4.5	6 21.7	59 58.9	9.7	16 22.1	2.6	150.952	+4.211
19	11 11 55	52 4	+ 8 42.8	6 50.5	60 8.6	2.3	16 24.7	0.6	165.547	+3.270
20	12 3 59	51 29	+ 1 52.3	6 54.7	60 6.3	15.6	16 24.1	4.2	180.169	+2.114
21	12 55 28	51 57	— 5 2.4	6 34.8	59 50.7	28.3	16 19.9	7.8	194.715	+0.826
22	13 47 25	53 17	—11 37.2	5 52.2	59 22.4	38.9	16 12.1	10.6	209.084	—0.498
23	14 40 42	55 4	—17 29.4	4 49.3	58 43.5	46.0	16 1.5	12.5	223.188	—1.768
24	15 35 46	56 44	—22 18.7	3 30.4	57 57.5	48.9	15 49.0	13.3	236.958	—2.904
25	16 32 30	57 39	—25 49.1	2 1.4	57 8.6	47.9	15 35.7	13.1	250.359	—3.847
26	17 30 9	57 18	—27 50.5	0 29.8	56 20.7	43.2	15 22.6	11.7	263.385	—4.562
27	18 27 27	55 36	—28 20.3	0 57.1	55 37.5	35.9	15 10.9	9.8	276.059	—5.032
28	19 23 3	52 58	—27 23.2	2 14.0	55 1.6	26.7	15 1.1	7.3	288.427	—5.255
29	20 16 1	49 56	—25 9.2	3 18.5	54 34.9	16.5	14 53.8	4.5	300.553	—5.238
30	21 5 57	47 7	—21 50.7	4 10.2	54 18.4	6.1	14 49.3	1.7	312.511	—4.994
31	21 53 4	44 50	—17 40.5	4 50.3	54 12.3	4.0	14 47.6	1.1	324.380	—4.537
Nov. 1	22 37 54	43 23	—12 50.2	5 19.9	54 16.3	13.1	14 48.7	3.6	336.238	—3.888
2	23 21 17	42 51	— 7 30.3	5 39.7	54 29.4	21.0	14 52.3	5.7	348.160	—3.067
3	0 4 8	43 18	— 1 50.6	5 49.2	54 50.4	27.0	14 58.0	7.4	0.214	—2.103
4	0 47 26	44 46	+ 3 58.6	5 47.0	55 17.4	31.0	15 5.4	8.4	12.455	—1.029
5	1 32 12	47 16	+ 9 45.6	5 30.7	55 48.4	32.8	15 13.8	9.0	24.927	+0.113
6	2 19 28	50 41	+15 16.3	4 57.0	56 21.2	32.8	15 22.8	8.9	37.655	+1.270
7	3 10 9	54 41	+20 13.3	4 3.0	56 54.0	31.0	15 31.7	8.4	50.650	+2.385
8	4 4 50	58 36	+24 16.3	2 47.5	57 25.0	27.9	15 40.1	7.7	63.906	+3.393
9	5 3 26	61 33	+27 3.8	1 13.2	57 52.9	24.2	15 47.8	6.6	77.400	+4.229
10	6 4 59	62 37	+28 17.0	0 32.1	58 17.1	20.4	15 54.4	5.5	91.101	+4.838
11	7 7 36	61 35	+27 44.9	2 17.0	58 37.5	16.6	15 59.9	4.5	104.971	+5.173
12	8 9 11	58 58	+25 27.9	3 50.7	58 54.1	12.7	16 4.4	3.5	118.972	+5.205
13	9 8 9	55 47	+21 37.2	5 5.9	59 6.8	8.8	16 7.9	2.4	133.067	+4.926
14	10 3 56	52 54	+16 31.3	5 59.7	59 15.6	4.1	16 10.3	1.1	147.225	+4.348
15	10 56 50	50 55	+10 31.6	6 32.0	59 19.7	1.4	16 11.4	0.4	161.413	+3.504
16	11 47 45	50 2	+ 3 59.6	6 43.1	59 18.3	8.0	16 11.0	2.2	175.601	+2.445
17	12 37 47	50 22	— 2 43.5	6 33.2	59 10.3	15.6	16 8.8	4.2	189.751	+1.240
18	13 28 9	51 42	— 9 16.7	6 2.7	58 54.7	23.3	16 4.6	6.3	203.821	—0.032
19	14 19 51	53 46	—15 19.4	5 11.5	58 31.4	30.4	15 58.3	8.3	217.761	—1.289
20	15 13 37	56 2	—20 30.9	4 1.7	58 1.0	36.0	15 50.0	9.8	231.516	—2.451
21	16 9 39	57 43	—24 32.6	2 37.1	57 25.0	39.1	15 40.2	10.7	245.036	—3.453
22	17 7 22	58 12	—27 9.7	1 4.9	56 45.9	39.5	15 29.5	10.8	258.281	—4.245
23	18 5 34	57 6	—28 14.6	0 26.6	56 6.4	36.9	15 18.7	10.0	271.229	—4.799
24	19 2 40		—27 48.0		55 29.5		15 8.7		283.876	—5.102

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1930	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Okt. 14	6 32 30	162	+28 19.1	— 1.1	58.3	5 4.4	2.53	21 10	3.0	14 3	2.1
15	7 37 18	161	+26 55.4	— 5.9	58.9	6 5.1	2.51	22 30	3.5	14 47	1.6
16	8 40 36	155	+23 40.9	—10.2	59.4	7 4.3	2.41	23 58	3.7	15 19	1.1
17	9 41 2	147	+18 50.8	—13.8	59.8	8 0.6	2.28	—	—	15 42	0.9
18	10 38 21	140	+12 47.9	—16.3	60.1	8 53.9	2.16	1 26	3.7	16 1	0.7
19	11 33 12	135	+ 5 58.2	—17.7	60.2	9 44.6	2.08	2 54	3.6	16 16	0.6
20	12 26 40	133	— 1 11.2	—17.9	60.0	10 34.0	2.05	4 20	3.6	16 31	0.6
21	13 20 0	134	— 8 13.6	—17.1	59.6	11 23.3	2.06	5 45	3.5	16 46	0.7
22	14 14 21	138	—14 43.3	—15.2	59.1	12 13.5	2.13	7 10	3.6	17 3	0.8
23	15 10 31	143	—20 16.2	—12.4	58.3	13 5.6	2.21	8 36	3.5	17 24	1.0
24	16 8 41	148	—24 31.8	— 8.8	57.5	13 59.7	2.29	10 0	3.4	17 52	1.4
25	17 8 19	150	—27 15.3	— 4.8	56.6	14 55.2	2.33	11 17	3.0	18 29	1.8
26	18 8 7	148	—28 20.3	— 0.7	55.9	15 50.9	2.30	12 24	2.5	19 18	2.3
27	19 6 30	143	—27 49.1	+ 3.2	55.2	16 45.2	2.21	13 16	1.9	20 18	2.7
28	20 2 13	135	—25 51.6	+ 6.5	54.7	17 36.9	2.09	13 54	1.4	21 26	2.9
29	20 54 37	127	—22 41.9	+ 9.2	54.4	18 25.2	1.94	14 22	1.0	22 37	3.0
30	21 43 47	119	—18 34.4	+11.3	54.2	19 10.3	1.82	14 42	0.8	23 48	3.0
31	22 30 20	114	—13 42.5	+12.9	54.2	19 52.8	1.73	14 58	0.6	—	—
Nov. 1	23 15 7	111	— 8 17.6	+14.1	54.5	20 33.5	1.67	15 11	0.5	0 59	2.9
2	23 59 11	110	— 2 30.6	+14.8	54.8	21 13.5	1.67	15 23	0.5	2 8	2.9
3	0 43 36	112	+ 3 27.9	+15.0	55.2	21 53.9	1.71	15 35	0.5	3 18	2.9
4	1 29 31	118	+ 9 25.6	+14.7	55.8	22 35.8	1.78	15 47	0.5	4 28	3.0
5	2 18 7	126	+15 7.5	+13.7	56.3	23 20.3	1.93	16 1	0.6	5 42	3.1
6	—	—	—	—	—	—	—	16 18	0.9	6 58	3.2
7	3 10 28	136	+20 14.9	+11.8	56.9	0 8.6	2.10	16 42	1.2	8 18	3.4
8	4 7 15	148	+24 25.1	+ 8.9	57.4	1 1.3	2.29	17 14	1.6	9 39	3.2
9	5 8 24	158	+27 13.6	+ 5.0	57.9	1 58.3	2.46	18 0	2.2	10 54	2.9
10	6 12 44	163	+28 18.9	+ 0.4	58.3	2 58.5	2.54	19 2	2.9	11 59	2.4
11	7 17 58	162	+27 29.2	— 4.5	58.7	3 59.7	2.53	20 18	3.4	12 47	1.7
12	8 21 41	156	+24 47.1	— 8.9	59.0	4 59.3	2.42	21 43	3.6	13 22	1.3
13	9 22 14	147	+20 27.8	—12.5	59.2	5 55.7	2.28	23 10	3.6	13 48	0.9
14	10 19 12	138	+14 53.7	—15.1	59.3	6 48.6	2.14	—	—	14 7	0.7
15	11 13 13	132	+ 8 29.2	—16.7	59.3	7 38.5	2.03	0 35	3.5	14 23	0.6
16	12 5 23	129	+ 1 38.0	—17.4	59.3	8 26.6	1.99	1 59	3.5	14 37	0.6
17	12 57 5	130	— 5 17.1	—17.1	59.1	9 14.2	1.99	3 21	3.4	14 51	0.6
18	13 49 35	133	—11 53.4	—15.8	58.8	10 2.7	2.05	4 44	3.5	15 7	0.7
19	14 43 58	139	—17 48.2	—13.6	58.3	10 53.0	2.15	6 8	3.5	15 26	1.1
20	15 40 49	145	—22 39.1	—10.5	57.7	11 45.7	2.25	7 32	3.4	15 50	1.4
21	16 40 0	150	—26 6.8	— 6.7	57.1	12 40.8	2.33	8 53	3.2	16 22	1.6
22	17 40 26	151	—27 58.0	— 2.5	56.4	13 37.2	2.35	10 6	2.8	17 6	2.1
23	18 40 25	148	—28 9.0	+ 1.6	55.7	14 33.1	2.29	11 6	2.2	18 2	2.5
24	19 38 12	141	—26 46.3	+ 5.2	55.1	15 26.8	2.17	11 50	1.6	19 8	2.9

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1930	h m s	m s	° ′	′ ″	′ ″	″	′ ″	″	°	°
Nov. 24	19 2 40	54 41	−27 48.0	1 49.5	55 29.5	31.7	15 8.7	8.6	283.876	−5.102
25	19 57 21	51 30	−25 58.5	2 59.6	54 57.8	24.1	15 0.1	6.6	296.246	−5.158
26	20 48 51	48 16	−22 58.9	3 55.4	54 33.7	15.0	14 53.5	4.1	308.380	−4.980
27	21 37 7	45 32	−19 3.5	4 37.9	54 18.7	4.8	14 49.4	1.3	320.340	−4.587
28	22 22 39	43 35	−14 25.6	5 9.2	54 13.9	5.8	14 48.1	1.6	332.198	−3.999
29	23 6 14	42 37	− 9 16.4	5 30.9	54 19.7	16.2	14 49.7	4.4	344.038	−3.241
30	23 48 51	42 39	− 3 45.5	5 43.2	54 35.9	25.7	14 54.1	7.0	355.946	−2.340
Dez. 1	0 31 30	43 50	+ 1 57.7	5 45.8	55 1.6	33.7	15 1.1	9.2	8.008	−1.324
2	1 15 20	46 8	+ 7 43.5	5 36.2	55 35.3	39.5	15 10.3	10.7	20.303	−0.229
3	2 1 28	49 33	+13 19.7	5 11.0	56 14.8	42.4	15 21.0	11.6	32.896	+0.900
4	2 51 1	53 47	+18 30.7	4 25.9	56 57.2	42.2	15 32.6	11.5	45.834	+2.012
5	3 44 48	58 21	+22 56.6	3 17.5	57 39.4	38.6	15 44.1	10.5	59.137	+3.043
6	4 43 9	62 11	+26 14.1	1 46.1	58 18.0	32.1	15 54.6	8.7	72.791	+3.926
7	5 45 20	64 8	+28 0.2	0 1.7	58 50.1	23.5	16 3.3	6.5	86.751	+4.595
8	6 49 28	63 36	+27 58.5	1 53.3	59 13.6	14.1	16 9.8	3.8	100.945	+4.993
9	7 53 4	60 57	+26 5.2	3 34.3	59 27.7	4.9	16 13.6	1.3	115.279	+5.084
10	8 54 1	57 17	+22 30.9	4 54.9	59 32.6	3.3	16 14.9	0.9	129.662	+4.856
11	9 51 18	53 41	+17 36.0	5 51.3	59 29.3	9.8	16 14.0	2.6	144.008	+4.323
12	10 44 59	50 59	+11 44.7	6 24.1	59 19.5	14.7	16 11.4	4.0	158.256	+3.526
13	11 35 58	49 27	+ 5 20.6	6 35.8	59 4.8	18.3	16 7.4	5.0	172.369	+2.520
14	12 25 25	49 11	− 1 15.2	6 28.3	58 46.5	21.1	16 2.4	5.8	186.329	+1.374
15	13 14 36	50 6	− 7 43.5	6 2.7	58 25.4	23.6	15 56.6	6.4	200.134	+0.160
16	14 4 42	51 56	−13 46.2	5 19.1	58 1.8	25.9	15 50.2	7.1	213.783	−1.047
17	14 56 38	54 16	−19 5.3	4 18.1	57 35.9	28.0	15 43.1	7.6	227.275	−2.180
18	15 50 54	56 27	−23 23.4	3 1.6	57 7.9	29.8	15 35.5	8.1	240.602	−3.175
19	16 47 21	57 43	−26 25.0	1 33.9	56 38.1	30.8	15 27.4	8.4	253.749	−3.985
20	17 45 4	57 32	−27 58.9	0 2.6	56 7.3	30.5	15 19.0	8.3	266.695	−4.574
21	18 42 36	55 46	−28 1.5	1 24.1	55 36.8	28.5	15 10.7	7.8	279.424	−4.923
22	19 38 22	52 52	−26 37.4	2 39.5	55 8.3	24.8	15 2.9	6.7	291.927	−5.027
23	20 31 14	49 35	−23 57.9	3 40.6	54 43.5	19.2	14 56.2	5.3	304.210	−4.894
24	21 20 49	46 29	−20 17.3	4 26.9	54 24.3	11.9	14 50.9	3.2	316.296	−4.541
25	22 7 18	44 5	−15 50.4	5 0.4	54 12.4	3.1	14 47.7	0.9	328.224	−3.993
26	22 51 23	42 33	−10 50.0	5 22.8	54 9.3	6.7	14 46.8	1.9	340.055	−3.276
27	23 33 56	42 3	− 5 27.2	5 36.1	54 16.0	17.2	14 48.7	4.6	351.860	−2.419
28	0 15 59	42 38	+ 0 8.9	5 40.2	54 33.2	27.4	14 53.3	7.5	3.725	−1.453
29	0 58 37	44 25	+ 5 49.1	5 34.6	55 0.6	37.1	15 0.8	10.1	15.740	−0.410
30	1 43 2	47 21	+11 23.7	5 16.2	55 37.7	45.1	15 10.9	12.3	27.999	+0.672
31	2 30 23	51 25	+16 39.9	4 41.3	56 22.8	50.5	15 23.2	13.8	40.588	+1.748
32	3 21 48		+21 21.2		57 13.3		15 37.0		53.578	+2.766

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1ʰ westl. Länge	Dekl.	Änderung für 1ʰ westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1ʰ westl. Länge	0ʰ Länge, +50° Breite: Aufgang	Änderung für 1ʰ westl. Länge	Untergang	Änderung für 1ʰ westl. Länge
1930	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Nov. 24	19 38 12	141	—26 46.3	+ 5.2	55.1	15 26.8	2.17	11 50	1.6	19 8	2.9
25	20 32 39	132	—24 3.3	+ 8.2	54.7	16 17.1	2.02	12 22	1.2	20 20	3.0
26	21 23 29	123	—20 16.5	+10.6	54.4	17 3.9	1.88	12 46	0.9	21 32	3.0
27	22 11 6	116	—15 40.9	+12.3	54.2	17 47.4	1.76	13 3	0.6	22 43	2.9
28	22 56 20	111	—10 29.8	+13.6	54.3	18 28.6	1.68	13 17	0.6	23 52	2.9
29	23 40 15	109	— 4 53.8	+14.4	54.5	19 8.5	1.65	13 30	0.5	—	—
30	0 24 0	110	+ 0 57.2	+14.8	54.9	19 48.2	1.66	13 41	0.5	1 1	2.9
Dez. 1	1 8 48	114	+ 6 53.1	+14.8	55.5	20 28.9	1.74	13 53	0.5	2 10	2.9
2	1 55 56	122	+12 41.4	+14.1	56.2	21 12.0	1.86	14 6	0.6	3 21	3.0
3	2 46 41	132	+18 5.9	+12.7	56.9	21 58.7	2.04	14 22	0.8	4 36	3.2
4	3 42 5	145	+22 45.1	+10.3	57.6	22 50.0	2.25	14 43	1.0	5 55	3.3
5	4 42 35	157	+26 12.6	+ 6.8	58.3	23 46.4	2.45	15 11	1.4	7 16	3.4
6	—	—	—	—	—	—	—	15 52	2.1	8 36	3.1
7	5 47 24	166	+28 1.9	+ 2.2	58.8	0 47.1	2.60	16 50	2.8	9 47	2.6
8	6 54 22	168	+27 53.7	— 2.9	59.3	1 50.0	2.62	18 4	3.3	10 43	2.0
9	8 0 31	162	+25 44.6	— 7.8	59.5	2 52.0	2.53	19 29	3.6	11 24	1.4
10	9 3 28	152	+21 48.4	—11.7	59.5	3 50.8	2.37	20 57	3.6	11 52	1.0
11	10 2 12	142	+16 30.0	—14.6	59.5	4 45.5	2.19	22 23	3.5	12 13	0.8
12	10 57 6	133	+10 17.2	—16.3	59.3	5 36.3	2.05	23 47	3.4	12 30	0.6
13	11 49 16	128	+ 3 35.3	—17.0	59.0	6 24.4	1.97	—	—	12 44	0.6
14	12 40 7	127	— 3 13.1	—16.9	58.7	7 11.2	1.94	1 8	3.4	12 58	0.6
15	13 31 5	129	— 9 47.6	—15.9	58.3	7 58.1	1.98	2 29	3.4	13 13	0.7
16	14 23 26	134	—15 48.8	—14.1	57.9	8 46.3	2.05	3 50	3.4	13 30	0.8
17	15 18 5	140	—20 57.0	—11.5	57.4	9 36.9	2.16	5 12	3.4	13 52	1.0
18	16 15 22	146	—24 53.1	— 8.1	56.9	10 30.1	2.27	6 33	3.3	14 20	1.4
19	17 14 45	150	—27 21.1	— 4.2	56.4	11 25.4	2.33	7 49	2.9	14 58	1.9
20	18 14 49	150	—28 11.6	0.0	55.9	12 21.4	2.32	8 53	2.4	15 50	2.4
21	19 13 44	144	—27 25.2	+ 3.8	55.3	13 16.2	2.24	9 44	1.8	16 52	2.7
22	20 9 54	136	—25 11.7	+ 7.2	54.9	14 8.3	2.10	10 21	1.3	18 2	3.0
23	21 2 30	127	—21 46.7	+ 9.8	54.5	14 56.8	1.94	10 47	1.0	19 15	3.0
24	21 51 32	119	—17 27.1	+11.7	54.3	15 41.8	1.81	11 7	0.7	20 27	2.9
25	22 37 38	112	—12 28.1	+13.1	54.2	16 23.8	1.70	11 22	0.6	21 36	2.9
26	23 21 44	109	— 7 2.2	+14.0	54.2	17 3.9	1.64	11 36	0.5	22 45	2.9
27	0 4 58	108	— 1 19.9	+14.5	54.5	17 43.0	1.63	11 47	0.5	23 53	2.9
28	0 48 31	110	+ 4 29.5	+14.6	54.9	18 22.5	1.67	11 58	0.5	—	—
29	1 33 41	116	+10 15.9	+14.2	55.5	19 3.7	1.76	12 11	0.6	1 2	2.9
30	2 21 49	125	+15 46.5	+13.2	56.2	19 47.7	1.92	12 25	0.7	2 14	3.1
31	3 14 14	137	+20 44.3	+11.4	57.1	20 36.1	2.12	12 43	0.9	3 29	3.2

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	19 56 26.51	5 47.10	−22 35 43.5	22 41.6	0.053 9522	8 6731	13 21.8
1	20 2 13.61	5 33.49	22 13 1.9	23 42.1	0.045 2791	9 1760	13 23.5
2	20 7 47.10	5 17.85	21 49 19.8	24 34.0	0.036 1031	9 6921	13 24.9
3	20 13 4.95	4 59.97	21 24 45.8	25 15.6	0.026 4110	10 2164	13 26.1
4	20 18 4.92	4 39.61	20 59 30.2	25 45.0	0.016 1946	10 7422	13 27.0
5	20 22 44.53	4 16.53	20 33 45.2	26 0.6	0.005 4524	11 2604	13 27.5
6	20 27 1.06	3 50.47	−20 7 44.6	26 0.6	9.994 1920	11 7594	13 27.6
7	20 30 51.53	3 21.25	19 41 44.0	25 42.7	9.982 4326	12 2244	13 27.3
8	20 34 12.78	2 48.75	19 16 1.3	25 5.2	9.970 2082	12 6372	13 26.4
9	20 37 1.53	2 12.89	18 50 56.1	24 6.6	9.957 5710	12 9762	13 24.9
10	20 39 14.42	1 33.75	18 26 49.5	22 46.0	9.944 5948	13 2165	13 22.8
11	20 40 48.17	0 51.57	18 4 3.5	21 2.9	9.931 3783	13 3304	13 20.1
12	20 41 39.74	0 6.79	−17 43 0.6	18 57.5	9.918 0479	13 2887	13 16.6
13	20 41 46.53	0 39.87	17 24 3.1	16 31.6	9.904 7592	13 0621	13 12.3
14	20 41 6.66	1 27.41	17 7 31.5	13 47.8	9.891 6971	12 6242	13 7.3
15	20 39 39.25	2 14.57	16 53 43.7	10 50.2	9.879 0729	11 9542	13 1.5
16	20 37 24.68	2 59.83	16 42 53.5	7 43.8	9.867 1187	11 0407	12 54.9
17	20 34 24.85	3 41.45	16 35 9.7	4 34.7	9.856 0780	9 8854	12 47.7
18	20 30 43.40	4 17.72	−16 30 35.0	1 29.4	9.846 1926	8 5046	12 39.7
19	20 26 25.68	4 46.98	16 29 5.6	1 26.1	9.837 6880	6 9312	12 31.3
20	20 21 38.70	5 7.86	16 30 31.7	4 6.1	9.830 7568	5 2136	12 22.4
21	20 16 30.84	5 19.52	16 34 37.8	6 26.3	9.825 5432	3 4113	12 13.3
22	20 11 11.32	5 21.64	16 41 4.1	8 24.2	9.822 1319	1 5894	12 4.0
23	20 5 49.68	5 14.47	16 49 28.3	9 58.9	9.820 5425	1877	11 54.8
24	20 0 35.21	4 58.85	−16 59 27.2	11 11.0	9.820 7302	1 8626	11 45.8
25	19 55 36.36	4 36.02	17 10 38.2	12 2.0	9.822 5928	3 3899	11 37.1
26	19 51 0.34	4 7.45	17 22 40.2	12 34.2	9.825 9827	4 7386	11 28.9
27	19 46 52.89	3 34.72	17 35 14.4	12 50.3	9.830 7213	5 8926	11 21.1
28	19 43 18.17	2 59.31	17 48 4.7	12 52.4	9.836 6139	6 8483	11 13.9
29	19 40 18.86	2 22.55	18 0 57.1	12 42.9	9.843 4622	7 6130	11 7.2
30	19 37 56.31	1 45.53	−18 13 40.0	12 23.7	9.851 0752	8 2011	11 1.2
31	19 36 10.78	1 9.14	18 26 3.7	11 56.4	9.859 2763	8 6310	10 55.8
Febr. 1	19 35 1.64	0 34.01	18 38 0.1	11 22.2	9.867 9073	8 9233	10 51.0
2	19 34 27.63	0 0.57	18 49 22.3	10 42.0	9.876 8306	9 0989	10 46.8
3	19 34 27.06	0 30.92	19 0 4.3	9 56.8	9.885 9295	9 1773	10 43.1
4	19 34 57.98	1 0.30	19 10 1.1	9 7.1	9.895 1068	9 1767	10 39.9
5	19 35 58.28	1 27.53	−19 19 8.2	8 13.8	9.904 2835	9 1124	10 37.2
6	19 37 25.81	1 52.66	19 27 22.0	7 17.1	9.913 3959	8 9983	10 34.9
7	19 39 18.47	2 15.73	19 34 39.1	6 17.3	9.922 3942	8 8457	10 33.0
8	19 41 34.20	2 36.88	19 40 56.4	5 15.1	9.931 2399	8 6642	10 31.5
9	19 44 11.08	2 56.23	19 46 11.5	4 10.5	9.939 9041	8 4613	10 30.3
10	19 47 7.31		−19 50 22.0		9.948 3654		10 29.4

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	19 47 7.31	3 13.89	−19 50 22.0	3 3.9	9.948 3654	8 2436	10 29.4
11	19 50 21.20	3 30.01	19 53 25.9	1 55.6	9.956 6090	8 0161	10 28.8
12	19 53 51.21	3 44.72	19 55 21.5	0 45.7	9.964 6251	7 7827	10 28.5
13	19 57 35.93	3 58.11	19 56 7.2	0 25.5	9.972 4078	7 5467	10 28.4
14	20 1 34.04	4 10.33	19 55 41.7	1 37.8	9.979 9545	7 3105	10 28.5
15	20 5 44.37	4 21.48	19 54 3.9	2 51.2	9.987 2650	7 0759	10 28.8
16	20 10 5.85	4 31.66	−19 51 12.7	4 5.6	9.994 3409	6 8445	10 29.3
17	20 14 37.51	4 40.95	19 47 7.1	5 20.4	0.001 1854	6 6172	10 30.0
18	20 19 18.46	4 49.43	19 41 46.7	6 36.0	0.007 8026	6 3946	10 30.8
19	20 24 7.89	4 57.19	19 35 10.7	7 52.2	0.014 1972	6 1777	10 31.7
20	20 29 5.08	5 4.28	19 27 18.5	9 8.5	0.020 3749	5 9666	10 32.8
21	20 34 9.36	5 10.78	19 18 10.0	10 25.4	0.026 3415	5 7615	10 33.9
22	20 39 20.14	5 16.74	−19 7 44.6	11 42.6	0.032 1030	5 5624	10 35.2
23	20 44 36.88	5 22.21	18 56 2.0	12 59.9	0.037 6654	5 3693	10 36.6
24	20 49 59.09	5 27.24	18 43 2.1	14 17.2	0.043 0347	5 1820	10 38.1
25	20 55 26.33	5 31.89	18 28 44.9	15 34.6	0.048 2167	5 0006	10 39.6
26	21 0 58.22	5 36.18	18 13 10.3	16 52.1	0.053 2173	4 8247	10 41.2
27	21 6 34.40	5 40.13	17 56 18.2	18 9.7	0.058 0420	4 6538	10 42.9
28	21 12 14.53	5 43.83	−17 38 8.5	19 27.1	0.062 6958	4 4880	10 44.7
März 1	21 17 58.36	5 47.28	17 18 41.4	20 44.5	0.067 1838	4 3268	10 46.5
2	21 23 45.64	5 50.49	16 57 56.9	22 1.8	0.071 5106	4 1696	10 48.4
3	21 29 36.13	5 53.51	16 35 55.1	23 18.9	0.075 6802	4 0162	10 50.3
4	21 35 29.64	5 56.37	16 12 36.2	24 35.8	0.079 6964	3 8666	10 52.3
5	21 41 26.01	5 59.09	15 48 0.4	25 52.5	0.083 5630	3 7199	10 54.3
6	21 47 25.10	6 1.69	−15 22 7.9	27 9.2	0.087 2829	3 5757	10 56.4
7	21 53 26.79	6 4.20	14 54 58.7	28 25.5	0.090 8586	3 4337	10 58.5
8	21 59 30.99	6 6.64	14 26 33.2	29 41.6	0.094 2923	3 2933	11 0.6
9	22 5 37.63	6 9.01	13 56 51.6	30 57.5	0.097 5856	3 1540	11 2.8
10	22 11 46.64	6 11.36	13 25 54.1	32 13.2	0.100 7396	3 0155	11 5.0
11	22 17 58.00	6 13.69	12 53 40.9	33 28.5	0.103 7551	2 8770	11 7.3
12	22 24 11.69	6 16.02	−12 20 12.4	34 43.5	0.106 6321	2 7379	11 9.6
13	22 30 27.71	6 18.38	11 45 28.9	35 58.1	0.109 3700	2 5974	11 11.9
14	22 36 46.09	6 20.76	11 9 30.8	37 12.3	0.111 9674	2 4552	11 14.3
15	22 43 6.85	6 23.19	10 32 18.5	38 26.2	0.114 4226	2 3101	11 16.8
16	22 49 30.04	6 25.69	9 53 52.3	39 39.6	0.116 7327	2 1614	11 19.2
17	22 55 55.73	6 28.27	9 14 12.7	40 52.3	0.118 8941	2 0087	11 21.7
18	23 2 24.00	6 30.93	− 8 33 20.4	42 4.3	0.120 9028	1 8507	11 24.3
19	23 8 54.93	6 33.67	7 51 16.1	43 15.7	0.122 7535	1 6866	11 26.9
20	23 15 28.60	6 36.53	7 8 0.4	44 26.0	0.124 4401	1 5152	11 29.5
21	23 22 5.13	6 39.49	6 23 34.4	45 35.4	0.125 9553	1 3354	11 32.2
22	23 28 44.62	6 42.58	5 37 59.0	46 43.4	0.127 2907	1 1464	11 35.0
23	23 35 27.20		− 4 51 15.6		0.128 4371		11 37.8

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
März 23	23 35 27.20	6 45.79	− 4 51 15.6	47 49.9	0.128 4371	9469	11 37.8
24	23 42 12.99	6 49.10	4 3 25.7	48 54.8	0.129 3840	7353	11 40.6
25	23 49 2.09	6 52.52	3 14 30.9	49 57.4	0.130 1193	5105	11 43.5
26	23 55 54.61	6 56.05	2 24 33.5	50 57.6	0.130 6298	2710	11 46.5
27	0 2 50.66	6 59.67	1 33 35.9	51 55.1	0.130 9008	154	11 49.5
28	0 9 50.33	7 3.34	− 0 41 40.8	52 49.1	0.130 9162	2579	11 52.6
29	0 16 53.67	7 7.06	+ 0 11 8.3	53 39.1	0.130 6583	5502	11 55.8
30	0 24 0.73	7 10.78	1 4 47.4	54 24.6	0.130 1081	8631	11 59.0
31	0 31 11.51	7 14.44	1 59 12.0	55 4.7	0.129 2450	1 1974	12 2.3
April 1	0 38 25.95	7 17.97	2 54 16.7	55 38.7	0.128 0476	1 5543	12 5.6
2	0 45 43.92	7 21.35	3 49 55.4	56 5.5	0.126 4933	1 9345	12 9.0
3	0 53 5.27	7 24.46	4 46 0.9	56 24.4	0.124 5588	2 3383	12 12.5
4	1 0 29.73	7 27.21	+ 5 42 25.3	56 34.6	0.122 2205	2 7657	12 16.0
5	1 7 56.94	7 29.51	6 38 59.9	56 34.8	0.119 4548	3 2158	12 19.5
6	1 15 26.45	7 31.25	7 35 34.7	56 24.1	0.116 2390	3 6870	12 23.1
7	1 22 57.70	7 32.29	8 31 58.8	56 1.9	0.112 5520	4 1771	12 26.7
8	1 30 29.99	7 32.55	9 28 0.7	55 27.2	0.108 3749	4 6834	12 30.3
9	1 38 2.54	7 31.89	10 23 27.9	54 39.9	0.103 6915	5 2018	12 33.9
10	1 45 34.43	7 30.22	+11 18 7.8	53 39.3	0.098 4897	5 7280	12 37.5
11	1 53 4.65	7 27.43	12 11 47.1	52 25.6	0.092 7617	6 2573	12 41.0
12	2 0 32.08	7 23.47	13 4 12.7	50 59.1	0.086 5044	6 7841	12 44.5
13	2 7 55.55	7 18.28	13 55 11.8	49 20.4	0.079 7203	7 3029	12 47.9
14	2 15 13.83	7 11.84	14 44 32.2	47 30.2	0.072 4174	7 8085	12 51.2
15	2 22 25.67	7 4.12	15 32 2.4	45 29.9	0.064 6089	8 2960	12 54.4
16	2 29 29.79	6 55.15	+16 17 32.3	43 20.5	0.056 3129	8 7607	12 57.5
17	2 36 24.94	6 44.99	17 0 52.8	41 3.4	0.047 5522	9 1990	13 0.4
18	2 43 9.93	6 33.65	17 41 56.2	38 40.1	0.038 3532	9 6074	13 3.1
19	2 49 43.58	6 21.22	18 20 36.3	36 12.0	0.028 7458	9 9837	13 5.6
20	2 56 4.80	6 7.76	18 56 48.3	33 40.3	0.018 7621	10 3262	13 7.9
21	3 2 12.56	5 53.32	19 30 28.6	31 6.2	0.008 4359	10 6338	13 9.9
22	3 8 5.88	5 37.99	+20 1 34.8	28 30.7	9.997 8021	10 9054	13 11.7
23	3 13 43.87	5 21.81	20 30 5.5	25 54.9	9.986 8967	11 1409	13 13.3
24	3 19 5.68	5 4.87	20 56 0.4	23 19.2	9.975 7558	11 3401	13 14.6
25	3 24 10.55	4 47.19	21 19 19.6	20 44.3	9.964 4157	11 5025	13 15.5
26	3 28 57.74	4 28.85	21 40 3.9	18 10.7	9.952 9132	11 6277	13 16.2
27	3 33 26.59	4 9.89	21 58 14.6	15 38.6	9.941 2855	11 7159	13 16.6
28	3 37 36.48	3 50.34	+22 13 53.2	13 8.0	9.929 5696	11 7663	13 16.6
29	3 41 26.82	3 30.28	22 27 1.2	10 39.4	9.917 8033	11 7777	13 16.3
30	3 44 57.10	3 9.73	22 37 40.6	8 12.7	9.906 0256	11 7492	13 15.7
Mai 1	3 48 6.83	2 48.79	22 45 53.3	5 47.7	9.894 2764	11 6790	13 14.7
2	3 50 55.62	2 27.50	22 51 41.0	3 24.5	9.882 5974	11 5656	13 13.4
3	3 53 23.12		+22 55 5.5		9.871 0318		13 11.7

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Mai 3	3 53 23.12	2 5.95	+22 55 5.5	1 3.4	9.871 0318	11 4070	13 11.7
4	3 55 29.07	1 44.26	22 56 8.9	1 15.4	9.859 6248	11 2006	13 9.7
5	3 57 13.33	1 22.53	22 54 53.5	3 32.2	9.848 4242	10 9443	13 7.3
6	3 58 35.86	1 0.88	22 51 21.3	5 46.6	9.837 4799	10 6362	13 4.5
7	3 59 36.74	0 39.48	22 45 34.7	7 58.2	9.826 8437	10 2737	13 1.4
8	4 0 16.22	0 18.52	22 37 36.5	10 6.1	9.816 5700	9 8548	12 58.0
9	4 0 34.74	0 1.84	+22 27 30.4	12 9.8	9.806 7152	9 3782	12 54.2
10	4 0 32.90	0 21.39	22 15 20.6	14 8.5	9.797 3370	8 8435	12 50.0
11	4 0 11.51	0 39.89	22 1 12.1	16 1.0	9.788 4935	8 2505	12 45.6
12	3 59 31.62	0 57.14	21 45 11.1	17 46.2	9.780 2430	7 6002	12 40.8
13	3 58 34.48	1 12.89	21 27 24.9	19 22.5	9.772 6428	6 8951	12 35.8
14	3 57 21.59	1 26.95	21 8 2.4	20 48.6	9.765 7477	6 1388	12 30.5
15	3 55 54.64	1 39.11	+20 47 13.8	22 3.0	9.759 6089	5 3361	12 25.1
16	3 54 15.53	1 49.20	20 25 10.8	23 4.1	9.754 2728	4 4929	12 19.4
17	3 52 26.33	1 57.07	20 2 6.7	23 50.5	9.749 7799	3 6172	12 13.6
18	3 50 29.26	2 2.65	19 38 16.2	24 21.4	9.746 1627	2 7173	12 7.7
19	3 48 26.61	2 5.86	19 13 54.8	24 35.5	9.743 4454	1 8022	12 1.7
20	3 46 20.75	2 6.69	18 49 19.3	24 32.4	9.741 6432	8821	11 55.6
21	3 44 14.06	2 5.20	+18 24 46.9	24 12.0	9.740 7611	335	11 49.6
22	3 42 8.86	2 1.46	18 0 34.9	23 34.5	9.740 7946	9350	11 43.6
23	3 40 7.40	1 55.60	17 37 0.4	22 40.5	9.741 7296	1 8128	11 37.7
24	3 38 11.80	1 47.78	17 14 19.9	21 31.1	9.743 5424	2 6590	11 31.9
25	3 36 24.02	1 38.21	16 52 48.8	20 7.7	9.746 2014	3 4668	11 26.3
26	3 34 45.81	1 27.06	16 32 41.1	18 31.8	9.749 6682	4 2302	11 20.8
27	3 33 18.75	1 14.54	+16 14 9.3	16 45.2	9.753 8984	4 9447	11 15.5
28	3 32 4.21	1 0.89	15 57 24.1	14 49.8	9.758 8431	5 6075	11 10.5
29	3 31 3.32	0 46.29	15 42 34.3	12 47.3	9.764 4506	6 2172	11 5.7
30	3 30 17.03	0 30.94	15 29 47.0	10 39.8	9.770 6678	6 7729	11 1.1
31	3 29 46.09	0 15.02	15 19 7.2	8 29.0	9.777 4407	7 2751	10 56.8
Juni 1	3 29 31.07	0 1.32	15 10 38.2	6 16.5	9.784 7158	7 7253	10 52.7
2	3 29 32.39	0 17.94	+15 4 21.7	4 3.7	9.792 4411	8 1253	10 48.9
3	3 29 50.33	0 34.73	15 0 18.0	1 51.9	9.800 5664	8 4776	10 45.4
4	3 30 25.06	0 51.59	14 58 26.1	0 17.7	9.809 0440	8 7851	10 42.2
5	3 31 16.65	1 8.44	14 58 43.8	2 24.2	9.817 8291	9 0503	10 39.2
6	3 32 25.09	1 25.23	15 1 8.0	4 26.7	9.826 8794	9 2766	10 36.6
7	3 33 50.32	1 41.91	15 5 34.7	6 24.6	9.836 1560	9 4668	10 34.2
8	3 35 32.23	1 58.45	+15 11 59.3	8 17.3	9.845 6228	9 6238	10 32.0
9	3 37 30.68	2 14.84	15 20 16.6	10 4.6	9.855 2466	9 7502	10 30.2
10	3 39 45.52	2 31.07	15 30 21.2	11 45.8	9.864 9968	9 8487	10 28.6
11	3 42 16.59	2 47.12	15 42 7.0	13 20.7	9.874 8455	9 9214	10 27.3
12	3 45 3.71	3 3.04	15 55 27.7	14 49.3	9.884 7669	9 9706	10 26.3
13	3 48 6.75		+16 10 17.0		9.894 7375		10 25.5

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Juni 13	3 48 6.75	3 18.82	+16 10 17.0	16 11.1	9.894 7375	9 9980	10 25.5
14	3 51 25.57	3 34.49	16 26 28.1	17 26.1	9.904 7355	10 0051	10 25.0
15	3 55 0.06	3 50.06	16 43 54.2	18 34.1	9.914 7406	9 9932	10 24.7
16	3 58 50.12	4 5.58	17 2 28.3	19 35.1	9.924 7338	9 9630	10 24.7
17	4 2 55.70	4 21.05	17 22 3.4	20 28.7	9.934 6968	9 9156	10 25.0
18	4 7 16.75	4 36.51	17 42 32.1	21 14.8	9.944 6124	9 8515	10 25.5
19	4 11 53.26	4 51.98	+18 3 46.9	21 53.2	9.954 4639	9 7705	10 26.3
20	4 16 45.24	5 7.48	18 25 40.1	22 23.8	9.964 2344	9 6730	10 27.3
21	4 21 52.72	5 23.03	18 48 3.9	22 46.1	9.973 9074	9 5587	10 28.6
22	4 27 15.75	5 38.64	19 10 50.0	22 59.8	9.983 4661	9 4268	10 30.2
23	4 32 54.39	5 54.32	19 33 49.8	23 4.6	9.992 8929	9 2767	10 32.0
24	4 38 48.71	6 10.03	19 56 54.4	23 0.2	0.002 1696	9 1080	10 34.1
25	4 44 58.74	6 25.77	+20 19 54.6	22 46.2	0.011 2776	8 9193	10 36.4
26	4 51 24.51	6 41.53	20 42 40.8	22 22.0	0.020 1969	8 7097	10 39.0
27	4 58 6.04	6 57.23	21 5 2.8	21 47.0	0.028 9066	8 4781	10 41.9
28	5 5 3.27	7 12.80	21 26 49.8	21 1.1	0.037 3847	8 2233	10 45.0
29	5 12 16.07	7 28.16	21 47 50.9	20 3.8	0.045 6080	7 9443	10 48.4
30	5 19 44.23	7 43.21	22 7 54.7	18 54.7	0.053 5523	7 6402	10 52.1
Juli 1	5 27 27.44	7 57.82	+22 26 49.4	17 33.6	0.061 1925	7 3105	10 56.0
2	5 35 25.26	8 11.85	22 44 23.0	16 0.2	0.068 5030	6 9551	11 0.1
3	5 43 37.11	8 25.11	23 0 23.2	14 15.0	0.075 4581	6 5744	11 4.5
4	5 52 2.22	8 37.43	23 14 38.2	12 18.3	0.082 0325	6 1691	11 9.1
5	6 0 39.65	8 48.66	23 26 56.5	10 10.5	0.088 2016	5 7412	11 13.9
6	6 9 28.31	8 58.61	23 37 7.0	7 52.3	0.093 9428	5 2931	11 18.8
7	6 18 26.92	9 7.11	+23 44 59.3	5 25.5	0.099 2359	4 8277	11 23.9
8	6 27 34.03	9 14.01	23 50 24.8	2 51.1	0.104 0636	4 3490	11 29.2
9	6 36 48.04	9 19.23	23 53 15.9	0 10.9	0.108 4126	3 8614	11 34.6
10	6 46 7.27	9 22.71	23 53 26.8	2 33.2	0.112 2740	3 3695	11 40.0
11	6 55 29.98	9 24.41	23 50 53.6	5 19.2	0.115 6435	2 8782	11 45.5
12	7 4 54.39	9 24.37	23 45 34.4	8 5.5	0.118 5217	2 3923	11 51.0
13	7 14 18.76	9 22.65	+23 37 28.9	10 49.7	0.120 9140	1 9155	11 56.4
14	7 23 41.41	9 19.36	23 26 39.2	13 30.4	0.122 8295	1 4523	12 1.9
15	7 33 0.77	9 14.64	23 13 8.8	16 6.2	0.124 2818	1 0066	12 7.2
16	7 42 15.41	9 8.64	22 57 2.6	18 35.6	0.125 2884	5803	12 12.5
17	7 51 24.05	9 1.55	22 38 27.0	20 57.6	0.125 8687	1744	12 17.7
18	8 0 25.60	8 53.53	22 17 29.4	23 11.5	0.126 0431	2092	12 22.7
19	8 9 19.13	8 44.75	+21 54 17.9	25 17.0	0.125 8339	5698	12 27.6
20	8 18 3.88	8 35.37	21 29 0.9	27 13.7	0.125 2641	9075	12 32.3
21	8 26 39.25	8 25.54	21 1 47.2	29 1.4	0.124 3566	1 2231	12 36.9
22	8 35 4.79	8 15.40	20 32 45.8	30 40.3	0.123 1335	1 5176	12 41.3
23	8 43 20.19	8 5.06	20 2 5.5	32 10.5	0.121 6159	1 7918	12 45.5
24	8 51 25.25		+19 29 55.0		0.119 8241		12 49.6

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Juli 24	8 51 25.25	7 54.61	+19 29 55.0	33 32.4	0.119 8241	2 0472	12 49.6
25	8 59 19.86	7 44.16	18 56 22.6	34 46.3	0.117 7769	2 2853	12 53.5
26	9 7 4.02	7 33.74	18 21 36.3	35 52.4	0.115 4916	2 5073	12 57.2
27	9 14 37.76	7 23.43	17 45 43.9	36 51.4	0.112 9843	2 7145	13 0.7
28	9 22 1.19	7 13.27	17 8 52.5	37 43.5	0.110 2698	2 9086	13 4.1
29	9 29 14.46	7 3.28	16 31 9.0	38 29.1	0.107 3612	3 0914	13 7.3
30	9 36 17.74	6 53.49	+15 52 39.9	39 8.8	0.104 2698	3 2637	13 10.3
31	9 43 11.23	6 43.93	15 13 31.1	39 42.6	0.101 0061	3 4267	13 13.2
Aug. 1	9 49 55.16	6 34.58	14 33 48.5	40 11.1	0.097 5794	3 5817	13 15.9
2	9 56 29.74	6 25.45	13 53 37.4	40 34.7	0.093 9977	3 7300	13 18.4
3	10 2 55.19	6 16.56	13 13 2.7	40 53.5	0.090 2677	3 8724	13 20.8
4	10 9 11.75	6 7.88	12 32 9.2	41 8.0	0.086 3953	4 0100	13 23.1
5	10 15 19.63	5 59.40	+11 51 1.2	41 18.2	0.082 3853	4 1437	13 25.2
6	10 21 19.03	5 51.13	11 9 43.0	41 24.3	0.078 2416	4 2743	13 27.2
7	10 27 10.16	5 43.04	10 28 18.7	41 26.8	0.073 9673	4 4024	13 29.0
8	10 32 53.20	5 35.12	9 46 51.9	41 25.6	0.069 5649	4 5289	13 30.7
9	10 38 28.32	5 27.34	9 5 26.3	41 21.0	0.065 0360	4 6541	13 32.3
10	10 43 55.66	5 19.67	8 24 5.3	41 13.0	0.060 3819	4 7791	13 33.7
11	10 49 15.33	5 12.12	+ 7 42 52.3	41 1.6	0.055 6028	4 9041	13 35.0
12	10 54 27.45	5 4.65	7 1 50.7	40 47.0	0.050 6987	5 0296	13 36.2
13	10 59 32.10	4 57.23	6 21 3.7	40 29.4	0.045 6691	5 1559	13 37.3
14	11 4 29.33	4 49.85	5 40 34.3	40 8.5	0.040 5132	5 2835	13 38.2
15	11 9 19.18	4 42.45	5 0 25.8	39 44.4	0.035 2297	5 4129	13 39.1
16	11 14 1.63	4 35.04	4 20 41.4	39 17.2	0.029 8168	5 5441	13 39.8
17	11 18 36.67	4 27.57	+ 3 41 24.2	38 46.9	0.024 2727	5 6773	13 40.3
18	11 23 4.24	4 20.01	3 2 37.3	38 13.1	0.018 5954	5 8129	13 40.8
19	11 27 24.25	4 12.31	2 24 24.2	37 35.7	0.012 7825	5 9510	13 41.1
20	11 31 36.56	4 4.44	1 46 48.5	36 55.0	0.006 8315	6 0912	13 41.3
21	11 35 41.00	3 56.37	1 9 53.5	36 10.5	0.000 7403	6 2337	13 41.3
22	11 39 37.37	3 48.06	+ 0 33 43.0	35 21.9	9.994 5066	6 3785	13 41.2
23	11 43 25.43	3 39.43	− 0 1 38.9	34 29.2	9.988 1281	6 5250	13 41.0
24	11 47 4.86	3 30.46	0 36 8.1	33 31.9	9.981 6031	6 6727	13 40.6
25	11 50 35.32	3 21.10	1 9 40.0	32 29.8	9.974 9304	6 8211	13 40.1
26	11 53 56.42	3 11.28	1 42 9.8	31 22.5	9.968 1093	6 9693	13 39.4
27	11 57 7.70	3 0.94	2 13 32.3	30 9.7	9.961 1400	7 1158	13 38.6
28	12 0 8.64	2 50.05	2 43 42.0	28 50.7	9.954 0242	7 2596	13 37.6
29	12 2 58.69	2 38.52	− 3 12 32.7	27 25.0	9.946 7646	7 3992	13 36.4
30	12 5 37.21	2 26.30	3 39 57.7	25 52.3	9.939 3654	7 5319	13 34.9
31	12 8 3.51	2 13.33	4 5 50.0	24 11.9	9.931 8335	7 6554	13 33.3
Sept. 1	12 10 16.84	1 59.54	4 30 1.9	22 23.0	9.924 1781	7 7670	13 31.5
2	12 12 16.38	1 44.89	4 52 24.9	20 25.1	9.916 4111	7 8628	13 29.4
3	12 14 1.27		− 5 12 50.0		9.908 5483		13 27.1

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	12 14 1.27	1 29.30	−5 12 50.0	18 17.3	9.908 5483	7 9385	13 27.1
4	12 15 30.57	1 12.76	5 31 7.3	15 58.8	9.900 6098	7 9887	13 24.5
5	12 16 43.33	0 55.21	5 47 6.1	13 29.1	9.892 6211	8 0076	13 21.6
6	12 17 38.54	0 36.67	6 0 35.2	10 47.4	9.884 6135	7 9883	13 18.4
7	12 18 15.21	0 17.14	6 11 22.6	7 53.0	9.876 6252	7 9226	13 14.9
8	12 18 32.35	−0 3.31	6 19 15.6	4 45.8	9.868 7026	7 8016	13 11.1
9	12 18 29.04	0 24.58	−6 24 1.4	1 25.6	9.860 9010	7 6154	13 6.9
10	12 18 4.46	0 46.52	6 25 27.0	2 7.3	9.853 2856	7 3528	13 2.3
11	12 17 17.94	1 8.89	6 23 19.7	5 52.1	9.845 9328	7 0026	12 57.4
12	12 16 9.05	1 31.40	6 17 27.6	9 47.1	9.838 9302	6 5532	12 52.2
13	12 14 37.65	1 53.65	6 7 40.5	13 49.8	9.832 3770	5 9933	12 46.5
14	12 12 44.00	2 15.17	5 53 50.7	17 57.0	9.826 3837	5 3133	12 40.5
15	12 10 28.83	2 35.38	−5 35 53.7	22 3.7	9.821 0704	4 5054	12 34.2
16	12 7 53.45	2 53.63	5 13 50.0	26 4.5	9.816 5650	3 5659	12 27.5
17	12 4 59.82	3 9.25	4 47 45.5	29 52.5	9.812 9991	2 4957	12 20.6
18	12 1 50.57	3 21.53	4 17 53.0	33 19.7	9.810 5034	1 3018	12 13.4
19	11 58 29.04	3 29.76	3 44 33.3	36 18.4	9.809 2016	20	12 6.0
20	11 54 59.28	3 33.33	3 8 14.9	38 40.5	9.809 2036	1 3946	11 58.6
21	11 51 25.95	3 31.78	−2 29 34.4	40 18.6	9.810 5982	2 8482	11 51.2
22	11 47 54.17	3 24.82	1 49 15.8	41 7.1	9.813 4464	4 3293	11 43.8
23	11 44 29.35	3 12.36	1 8 8.7	41 2.4	9.817 7757	5 8008	11 36.5
24	11 41 16.99	2 54.56	−0 27 6.3	40 3.3	9.823 5765	7 2241	11 29.6
25	11 38 22.43	2 31.81	+0 12 57.0	38 10.8	9.830 8006	8 5625	11 22.9
26	11 35 50.62	2 4.67	0 51 7.8	35 28.7	9.839 3631	9 7836	11 16.7
27	11 33 45.95	1 33.91	+1 26 36.5	32 2.8	9.849 1467	10 8604	11 10.9
28	11 32 12.04	1 0.37	1 58 39.3	27 59.9	9.860 0071	11 7734	11 5.7
29	11 31 11.67	0 24.96	2 26 39.2	23 27.8	9.871 7805	12 5112	11 1.0
30	11 30 46.71	0 11.42	2 50 7.0	18 34.9	9.884 2917	13 0695	10 56.9
Okt. 1	11 30 58.13	0 47.95	3 8 41.9	13 29.3	9.897 3612	13 4507	10 53.5
2	11 31 46.08	1 23.85	3 22 11.2	8 17.9	9.910 8119	13 6633	10 50.6
3	11 33 9.93	1 58.47	+3 30 29.1	3 7.5	9.924 4752	13 7201	10 48.3
4	11 35 8.40	2 31.26	3 33 36.6	−1 56.1	9.938 1953	13 6366	10 46.6
5	11 37 39.66	3 1.82	3 31 40.5	6 48.1	9.951 8319	13 4306	10 45.4
6	11 40 41.48	3 29.88	3 24 52.4	11 25.1	9.965 2625	13 1209	10 44.7
7	11 44 11.36	3 55.26	3 13 27.3	15 43.8	9.978 3834	12 7263	10 44.5
8	11 48 6.62	4 17.92	2 57 43.5	19 42.6	9.991 1097	12 2648	10 44.6
9	11 52 24.54	4 37.86	+2 38 0.9	23 20.2	0.003 3745	11 7535	10 45.1
10	11 57 2.40	4 55.18	2 14 40.7	26 36.0	0.015 1280	11 2077	10 46.0
11	12 1 57.58	5 10.07	1 48 4.7	29 30.0	0.026 3357	10 6405	10 47.1
12	12 7 7.65	5 22.70	1 18 34.7	32 2.9	0.036 9762	10 0637	10 48.4
13	12 12 30.35	5 33.28	0 46 31.8	34 15.6	0.047 0399	9 4867	10 49.9
14	12 18 3.63		+0 12 16.2		0.056 5266		10 51.6

Tag	Scheinbare Rektaszension (0ʰ Welt-Zeit)		Scheinbare Deklination (0ʰ Welt-Zeit)		log Δ (0ʰ Welt-Zeit)		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	12 18 3.63	5 42.05	+ 0 12 16.2	36 9.1	0.056 5266	8 9169	10 51.6
15	12 23 45.68	5 49.21	− 0 23 52.9	37 45.0	0.065 4435	8 3603	10 53.4
16	12 29 34.89	5 55.00	1 1 37.9	39 4.4	0.073 8038	7 8212	10 55.3
17	12 35 29.89	5 59.62	1 40 42.3	40 9.0	0.081 6250	7 3025	10 57.3
18	12 41 29.51	6 3.24	2 20 51.3	41 0.1	0.088 9275	6 8063	10 59.4
19	12 47 32.75	6 6.04	3 1 51.4	41 39.2	0.095 7338	6 3334	11 1.5
20	12 53 38.79	6 8.17	− 3 43 30.6	42 7.4	0.102 0672	5 8843	11 3.7
21	12 59 46.96	6 9.75	4 25 38.0	42 26.0	0.107 9515	5 4587	11 5.9
22	13 5 56.71	6 10.89	5 8 4.0	42 36.1	0.113 4102	5 0560	11 8.2
23	13 12 7.60	6 11.68	5 50 40.1	42 38.7	0.118 4662	4 6752	11 10.4
24	13 18 19.28	6 12.23	6 33 18.8	42 34.7	0.123 1414	4 3156	11 12.7
25	13 24 31.51	6 12.59	7 15 53.5	42 24.7	0.127 4570	3 9756	11 15.0
26	13 30 44.10	6 12.81	− 7 58 18.2	42 9.6	0.131 4326	3 6540	11 17.2
27	13 36 56.91	6 12.95	8 40 27.8	41 49.8	0.135 0866	3 3498	11 19.5
28	13 43 9.86	6 13.04	9 22 17.6	41 26.0	0.138 4364	3 0612	11 21.8
29	13 49 22.90	6 13.13	10 3 43.6	40 58.6	0.141 4976	2 7872	11 24.1
30	13 55 36.03	6 13.23	10 44 42.2	40 27.9	0.144 2848	2 5268	11 26.4
31	14 1 49.26	6 13.35	11 25 10.1	39 54.3	0.146 8116	2 2786	11 28.6
Nov. 1	14 8 2.61	6 13.53	−12 5 4.4	39 18.0	0.149 0902	2 0415	11 30.9
2	14 14 16.14	6 13.78	12 44 22.4	38 39.5	0.151 1317	1 8143	11 33.2
3	14 20 29.92	6 14.10	13 23 1.9	37 58.8	0.152 9460	1 5963	11 35.5
4	14 26 44.02	6 14.50	14 1 0.7	37 16.0	0.154 5423	1 3864	11 37.8
5	14 32 58.52	6 14.99	14 38 16.7	36 31.4	0.155 9287	1 1839	11 40.1
6	14 39 13.51	6 15.56	15 14 48.1	35 45.0	0.157 1126	9876	11 42.4
7	14 45 29.07	6 16.22	−15 50 33.1	34 57.0	0.158 1002	7970	11 44.8
8	14 51 45.29	6 16.96	16 25 30.1	34 7.6	0.158 8972	6114	11 47.1
9	14 58 2.25	6 17.81	16 59 37.7	33 16.6	0.159 5086	4299	11 49.4
10	15 4 20.06	6 18.73	17 32 54.3	32 24.1	0.159 9385	2518	11 51.8
11	15 10 38.79	6 19.73	18 5 18.4	31 30.2	0.160 1903	767	11 54.2
12	15 16 58.52	6 20.80	18 36 48.6	30 35.0	0.160 2670	961	11 56.6
13	15 23 19.32	6 21.95	−19 7 23.6	29 38.4	0.160 1709	2674	11 59.0
14	15 29 41.27	6 23.14	19 37 2.0	28 40.4	0.159 9035	4376	12 1.4
15	15 36 4.41	6 24.39	20 5 42.4	27 41.0	0.159 4659	6072	12 3.9
16	15 42 28.80	6 25.68	20 33 23.4	26 40.5	0.158 8587	7769	12 6.4
17	15 48 54.48	6 27.01	21 0 3.9	25 38.3	0.158 0818	9471	12 8.9
18	15 55 21.49	6 28.34	21 25 42.2	24 34.8	0.157 1347	1 1183	12 11.4
19	16 1 49.83	6 29.68	−21 50 17.0	23 30.2	0.156 0164	1 2911	12 13.9
20	16 8 19.51	6 31.02	22 13 47.2	22 24.0	0.154 7253	1 4658	12 16.5
21	16 14 50.53	6 32.34	22 36 11.2	21 16.2	0.153 2595	1 6432	12 19.1
22	16 21 22.87	6 33.62	22 57 27.4	20 7.3	0.151 6163	1 8238	12 21.7
23	16 27 56.49	6 34.84	23 17 34.7	18 56.9	0.149 7925	2 0079	12 24.4
24	16 34 31.33		−23 36 31.6		0.147 7846		12 27.0

Merkur 1930

Tag	0h Welt-Zeit Scheinbare Rektaszension		0h Welt-Zeit Scheinbare Deklination		0h Welt-Zeit log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	16 34 31.33	6 35.99	−23 36 31.6	17 45.1	0.147 7846	2 1964	12 27.0
25	16 41 7.32	6 37.06	23 54 16.7	16 31.8	0.145 5882	2 3896	12 29.7
26	16 47 44.38	6 38.00	24 10 48.5	15 17.1	0.143 1986	2 5881	12 32.4
27	16 54 22.38	6 38.83	24 26 5.6	14 1.1	0.140 6105	2 7929	12 35.1
28	17 1 1.21	6 39.48	24 40 6.7	12 43.6	0.137 8176	3 0044	12 37.8
29	17 7 40.69	6 39.94	24 52 50.3	11 24.8	0.134 8132	3 2231	12 40.5
30	17 14 20.63	6 40.19	−25 4 15.1	10 4.6	0.131 5901	3 4503	12 43.2
Dez. 1	17 21 0.82	6 40.18	25 14 19.7	8 43.1	0.128 1398	3 6864	12 46.0
2	17 27 41.00	6 39.88	25 23 2.8	7 20.5	0.124 4534	3 9322	12 48.7
3	17 34 20.88	6 39.24	25 30 23.3	5 56.6	0.120 5212	4 1883	12 51.4
4	17 41 0.12	6 38.21	25 36 19.9	4 31.7	0.116 3329	4 4562	12 54.1
5	17 47 38.33	6 36.75	25 40 51.6	3 5.8	0.111 8767	4 7364	12 56.8
6	17 54 15.08	6 34.80	−25 43 57.4	1 39.2	0.107 1403	5 0298	12 59.5
7	18 0 49.88	6 32.29	25 45 36.6	0 11.8	0.102 1105	5 3370	13 2.1
8	18 7 22.17	6 29.13	25 45 48.4	1 15.9	0.096 7735	5 6595	13 4.7
9	18 13 51.30	6 25.26	25 44 32.5	2 43.8	0.091 1140	5 9981	13 7.2
10	18 20 16.56	6 20.57	25 41 48.7	4 11.6	0.085 1159	6 3532	13 9.6
11	18 26 37.13	6 14.93	25 37 37.1	5 38.9	0.078 7627	6 7256	13 12.0
12	18 32 52.06	6 8.25	−25 31 58.2	7 5.2	0.072 0371	7 1161	13 14.2
13	18 39 0.31	6 0.39	25 24 53.0	8 30.2	0.064 9210	7 5243	13 16.3
14	18 45 0.70	5 51.15	25 16 22.8	9 53.1	0.057 3967	7 9502	13 18.3
15	18 50 51.85	5 40.40	25 6 29.7	11 13.3	0.049 4465	8 3930	13 20.2
16	18 56 32.25	5 27.91	24 55 16.4	12 30.1	0.041 0535	8 8511	13 21.8
17	19 2 0.16	5 13.48	24 42 46.3	13 42.4	0.032 2024	9 3224	13 23.2
18	19 7 13.64	4 56.87	−24 29 3.9	14 49.3	0.022 8800	9 8027	13 24.3
19	19 12 10.51	4 37.82	24 14 14.6	15 49.7	0.013 0773	10 2867	13 25.1
20	19 16 48.33	4 16.07	23 58 24.9	16 42.5	0.002 7906	10 7674	13 25.6
21	19 21 4.40	3 51.35	23 41 42.4	17 25.9	9.992 0232	11 2351	13 25.7
22	19 24 55.75	3 23.41	23 24 16.5	17 59.0	9.980 7881	11 6768	13 25.4
23	19 28 19.16	2 52.03	23 6 17.5	18 20.6	9.969 1113	12 0768	13 24.5
24	19 31 11.19	2 17.04	−22 47 56.9	18 29.0	9.957 0345	12 4152	13 23.1
25	19 33 28.23	1 38.42	22 29 27.9	18 23.6	9.944 6193	12 6682	13 21.1
26	19 35 6.65	0 56.25	22 11 4.3	18 3.6	9.931 9511	12 8081	13 18.4
27	19 36 2.90	0 10.83	21 53 0.7	17 28.9	9.919 1430	12 8041	13 15.0
28	19 36 13.73	0 37.23	21 35 31.8	16 40.0	9.906 3389	12 6235	13 10.8
29	19 35 36.50	1 27.04	21 18 51.8	15 37.8	9.893 7154	12 2342	13 5.8
30	19 34 9.46	2 17.32	−21 3 14.0	14 24.2	9.881 4812	11 6073	13 0.0
31	19 31 52.14	3 6.42	20 48 49.8	13 1.6	9.869 8739	10 7219	12 53.4
32	19 28 45.72		−20 35 48.2		9.859 1520		12 46.0

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	17 59 8.71	5 29.29	−23 29 17.8	2 11.2	0.225 5308	4130	11 24.1
1	18 4 38.00	5 29.44	23 31 29.0	1 27.5	0.225 9438	4022	11 25.7
2	18 10 7.44	5 29.52	23 32 56.5	0 43.7	0.226 3460	3914	11 27.3
3	18 15 36.96	5 29.54	23 33 40.2	0 0.2	0.226 7374	3807	11 28.8
4	18 21 6.50	5 29.49	23 33 40.0	0 44.0	0.227 1181	3700	11 30.4
5	18 26 35.99	5 29.38	23 32 56.0	1 27.9	0.227 4881	3594	11 31.9
6	18 32 5.37	5 29.21	−23 31 28.1	2 11.6	0.227 8475	3490	11 33.5
7	18 37 34.58	5 28.96	23 29 16.5	2 55.2	0.228 1965	3385	11 35.0
8	18 43 3.54	5 28.67	23 26 21.3	3 38.8	0.228 5350	3282	11 36.5
9	18 48 32.21	5 28.31	23 22 42.5	4 22.2	0.228 8632	3181	11 38.1
10	18 54 0.52	5 27.88	23 18 20.3	5 5.4	0.229 1813	3080	11 39.6
11	18 59 28.40	5 27.41	23 13 14.9	5 48.4	0.229 4893	2979	11 41.1
12	19 4 55.81	5 26.88	−23 7 26.5	6 31.3	0.229 7872	2881	11 42.6
13	19 10 22.69	5 26.30	23 0 55.2	7 13.8	0.230 0753	2783	11 44.1
14	19 15 48.99	5 25.66	22 53 41.4	7 56.0	0.230 3536	2685	11 45.6
15	19 21 14.65	5 24.97	22 45 45.4	8 37.9	0.230 6221	2588	11 47.1
16	19 26 39.62	5 24.24	22 37 7.5	9 19.3	0.230 8809	2490	11 48.6
17	19 32 3.86	5 23.46	22 27 48.2	10 0.5	0.231 1299	2393	11 50.0
18	19 37 27.32	5 22.63	−22 17 47.7	10 41.3	0.231 3692	2294	11 51.5
19	19 42 49.95	5 21.77	22 7 6.4	11 21.5	0.231 5986	2194	11 52.9
20	19 48 11.72	5 20.87	21 55 44.9	12 1.3	0.231 8180	2094	11 54.3
21	19 53 32.59	5 19.92	21 43 43.6	12 40.6	0.232 0274	1994	11 55.7
22	19 58 52.51	5 18.93	21 31 3.0	13 19.4	0.232 2268	1892	11 57.1
23	20 4 11.44	5 17.91	21 17 43.6	13 57.8	0.232 4160	1790	11 58.5
24	20 9 29.35	5 16.85	−21 3 45.8	14 35.5	0.232 5950	1689	11 59.8
25	20 14 46.20	5 15.77	20 49 10.3	15 12.6	0.232 7639	1586	12 1.1
26	20 20 1.97	5 14.66	20 33 57.7	15 49.2	0.232 9225	1483	12 2.4
27	20 25 16.63	5 13.52	20 18 8.5	16 25.0	0.233 0708	1380	12 3.7
28	20 30 30.15	5 12.35	20 1 43.5	17 0.2	0.233 2088	1276	12 5.0
29	20 35 42.50	5 11.17	19 44 43.3	17 34.9	0.233 3364	1173	12 6.3
30	20 40 53.67	5 9.98	−19 27 8.4	18 8.9	0.233 4537	1069	12 7.5
31	20 46 3.65	5 8.76	19 8 59.5	18 42.1	0.233 5606	965	12 8.7
Febr. 1	20 51 12.41	5 7.53	18 50 17.4	19 14.7	0.233 6571	862	12 9.9
2	20 56 19.94	5 6.30	18 31 2.7	19 46.5	0.233 7433	758	12 11.1
3	21 1 26.24	5 5.05	18 11 16.2	20 17.6	0.233 8191	653	12 12.2
4	21 6 31.29	5 3.79	17 50 58.6	20 48.0	0.233 8844	550	12 13.4
5	21 11 35.08	5 2.55	−17 30 10.6	21 17.7	0.233 9394	447	12 14.5
6	21 16 37.63	5 1.30	17 8 52.9	21 46.5	0.233 9841	344	12 15.6
7	21 21 38.93	5 0.05	16 47 6.4	22 14.7	0.234 0185	242	12 16.6
8	21 26 38.98	4 58.82	16 24 51.7	22 42.1	0.234 0427	142	12 17.7
9	21 31 37.80	4 57.59	16 2 9.6	23 8.7	0.234 0569	41	12 18.7
10	21 36 35.39		−15 39 0.9		0.234 0610		12 19.7

Venus 1930

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	log Δ	Diff.	Obere Kulmination in Greenwich (h m)
1930 Febr. 10	21 36 35.39	4 56.37	−15 39 0.9	23 34.6	0.234 0610	60	12 19.7
11	21 41 31.76	4 55.16	15 15 26.3	23 59.7	0.234 0550	161	12 20.7
12	21 46 26.92	4 53.98	14 51 26.6	24 24.1	0.234 0389	261	12 21.7
13	21 51 20.90	4 52.83	14 27 2.5	24 47.7	0.234 0128	361	12 22.6
14	21 56 13.73	4 51.68	14 2 14.8	25 10.6	0.233 9767	463	12 23.6
15	22 1 5.41	4 50.55	13 37 4.2	25 32.7	0.233 9304	565	12 24.5
16	22 5 55.96	4 49.45	−13 11 31.5	25 54.0	0.233 8739	667	12 25.4
17	22 10 45.41	4 48.39	12 45 37.5	26 14.7	0.233 8072	771	12 26.2
18	22 15 33.80	4 47.34	12 19 22.8	26 34.5	0.233 7301	875	12 27.1
19	22 20 21.14	4 46.31	11 52 48.3	26 53.5	0.233 6426	981	12 27.9
20	22 25 7.45	4 45.32	11 25 54.8	27 11.8	0.233 5445	1087	12 28.7
21	22 29 52.77	4 44.36	10 58 43.0	27 29.4	0.233 4358	1196	12 29.5
22	22 34 37.13	4 43.42	−10 31 13.6	27 46.1	0.233 3162	1305	12 30.3
23	22 39 20.55	4 42.52	10 3 27.5	28 2.2	0.233 1857	1415	12 31.1
24	22 44 3.07	4 41.66	9 35 25.3	28 17.4	0.233 0442	1527	12 31.9
25	22 48 44.73	4 40.82	9 7 7.9	28 31.8	0.232 8915	1639	12 32.6
26	22 53 25.55	4 40.01	8 38 36.1	28 45.5	0.232 7276	1753	12 33.3
27	22 58 5.56	4 39.24	8 9 50.6	28 58.5	0.232 5523	1867	12 34.1
28	23 2 44.80	4 38.51	− 7 40 52.1	29 10.6	0.232 3656	1981	12 34.8
März 1	23 7 23.31	4 37.81	7 11 41.5	29 22.0	0.232 1675	2098	12 35.5
2	23 12 1.12	4 37.14	6 42 19.5	29 32.6	0.231 9577	2215	12 36.1
3	23 16 38.26	4 36.51	6 12 46.9	29 42.4	0.231 7362	2333	12 36.8
4	23 21 14.77	4 35.93	5 43 4.5	29 51.5	0.231 5029	2450	12 37.5
5	23 25 50.70	4 35.38	5 13 13.0	29 59.9	0.231 2579	2568	12 38.1
6	23 30 26.08	4 34.86	− 4 43 13.1	30 7.4	0.231 0011	2686	12 38.8
7	23 35 0.94	4 34.39	4 13 5.7	30 14.2	0.230 7325	2805	12 39.4
8	23 39 35.33	4 33.96	3 42 51.5	30 20.2	0.230 4520	2924	12 40.0
9	23 44 9.29	4 33.56	3 12 31.3	30 25.6	0.230 1596	3042	12 40.7
10	23 48 42.85	4 33.22	2 42 5.7	30 30.2	0.229 8554	3161	12 41.3
11	23 53 16.07	4 32.91	2 11 35.5	30 34.0	0.229 5393	3279	12 41.9
12	23 57 48.98	4 32.64	− 1 41 1.5	30 37.1	0.229 2114	3399	12 42.5
13	0 2 21.62	4 32.43	1 10 24.4	30 39.5	0.228 8715	3517	12 43.1
14	0 6 54.05	4 32.26	0 39 44.9	30 41.1	0.228 5198	3637	12 43.7
15	0 11 26.31	4 32.13	− 0 9 3.8	30 42.1	0.228 1561	3758	12 44.3
16	0 15 58.44	4 32.04	+ 0 21 38.3	30 42.4	0.227 7803	3880	12 44.9
17	0 20 30.48	4 32.01	0 52 20.7	30 41.9	0.227 3923	4001	12 45.4
18	0 25 2.49	4 32.02	+ 1 23 2.6	30 40.7	0.226 9922	4125	12 46.0
19	0 29 34.51	4 32.07	1 53 43.3	30 38.8	0.226 5797	4251	12 46.6
20	0 34 6.58	4 32.16	2 24 22.1	30 36.2	0.226 1546	4377	12 47.2
21	0 38 38.74	4 32.30	2 54 58.3	30 32.9	0.225 7169	4506	12 47.8
22	0 43 11.04	4 32.48	3 25 31.2	30 28.7	0.225 2663	4636	12 48.4
23	0 47 43.52		+ 3 55 59.9		0.224 8027		12 49.0

Tag	0h Welt Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
März 23	0 47 43.52	4 32.70	+ 3 55 59.9	30 24.0	0.224 8027	4768	12 49.0
24	0 52 16.22	4 32.96	4 26 23.9	30 18.5	0.224 3259	4900	12 49.6
25	0 56 49.18	4 33.26	4 56 42.4	30 12.1	0.223 8359	5035	12 50.2
26	1 1 22.44	4 33.61	5 26 54.5	30 5.1	0.223 3324	5172	12 50.8
27	1 5 56.05	4 34.00	5 56 59.6	29 57.4	0.222 8152	5310	12 51.5
28	1 10 30.05	4 34.41	6 26 57.0	29 48.8	0.222 2842	5449	12 52.1
29	1 15 4.46	4 34.88	+ 6 56 45.8	29 39.5	0.221 7393	5590	12 52.7
30	1 19 39.34	4 35.38	7 26 25.3	29 29.6	0.221 1803	5732	12 53.4
31	1 24 14.72	4 35.90	7 55 54.9	29 18.9	0.220 6071	5876	12 54.0
April 1	1 28 50.62	4 36.48	8 25 13.8	29 7.3	0.220 0195	6020	12 54.7
2	1 33 27.10	4 37.09	8 54 21.1	28 55.0	0.219 4175	6166	12 55.4
3	1 38 4.19	4 37.72	9 23 16.1	28 41.9	0.218 8009	6312	12 56.0
4	1 42 41.91	4 38.39	+ 9 51 58.0	28 28.2	0.218 1697	6460	12 56.7
5	1 47 20.30	4 39.10	10 20 26.2	28 13.7	0.217 5237	6608	12 57.4
6	1 51 59.40	4 39.83	10 48 39.9	27 58.3	0.216 8629	6756	12 58.1
7	1 56 39.23	4 40.60	11 16 38.2	27 42.1	0.216 1873	6905	12 58.9
8	2 1 19.83	4 41.40	11 44 20.3	27 25.4	0.215 4968	7053	12 59.6
9	2 6 1.23	4 42.22	12 11 45.7	27 7.9	0.214 7915	7201	13 0.4
10	2 10 43.45	4 43.08	+12 38 53.6	26 49.5	0.214 0714	7351	13 1.1
11	2 15 26.53	4 43.97	13 5 43.1	26 30.5	0.213 3363	7501	13 1.9
12	2 20 10.50	4 44.88	13 32 13.6	26 10.7	0.212 5862	7653	13 2.7
13	2 24 55.38	4 45.82	13 58 24.3	25 50.2	0.211 8209	7804	13 3.5
14	2 29 41.20	4 46.79	14 24 14.5	25 29.0	0.211 0405	7956	13 4.4
15	2 34 27.99	4 47.77	14 49 43.5	25 7.0	0.210 2449	8109	13 5.2
16	2 39 15.76	4 48.78	+15 14 50.5	24 44.3	0.209 4340	8265	13 6.1
17	2 44 4.54	4 49.82	15 39 34.8	24 20.9	0.208 6075	8421	13 7.0
18	2 48 54.36	4 50.87	16 3 55.7	23 56.7	0.207 7654	8579	13 7.9
19	2 53 45.23	4 51.93	16 27 52.4	23 31.7	0.206 9075	8738	13 8.8
20	2 58 37.16	4 53.00	16 51 24.1	23 6.1	0.206 0337	8900	13 9.7
21	3 3 30.16	4 54.09	17 14 30.2	22 39.7	0.205 1437	9063	13 10.7
22	3 8 24.25	4 55.19	+17 37 9.9	22 12.6	0.204 2374	9229	13 11.6
23	3 13 19.44	4 56.29	17 59 22.5	21 44.8	0.203 3145	9395	13 12.6
24	3 18 15.73	4 57.40	18 21 7.3	21 16.2	0.202 3750	9564	13 13.6
25	3 23 13.13	4 58.50	18 42 23.5	20 46.8	0.201 4186	9735	13 14.6
26	3 28 11.63	4 59.61	19 3 10.3	20 16.9	0.200 4451	9906	13 15.7
27	3 33 11.24	5 0.71	19 23 27.2	19 46.2	0.199 4545	1 0080	13 16.8
28	3 38 11.95	5 1.81	+19 43 13.4	19 14.8	0.198 4465	1 0256	13 17.8
29	3 43 13.76	5 2.88	20 2 28.2	18 42.6	0.197 4209	1 0434	13 18.9
30	3 48 16.64	5 3.95	20 21 10.8	18 9.9	0.196 3775	1 0613	13 20.1
Mai 1	3 53 20.59	5 5.00	20 39 20.7	17 36.4	0.195 3162	1 0793	13 21.2
2	3 58 25.59	5 6.02	20 56 57.1	17 2.3	0.194 2369	1 0974	13 22.3
3	4 3 31.61		+21 13 59.4		0.193 1395		13 23.5

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Mai 3	4 3 31.61	5 7.04	+21 13 59.4	16 27.5	0.193 1395	1 1156	13 23.5
4	4 8 38.65	5 8.03	21 30 26.9	15 52.2	0.192 0239	1 1339	13 24.7
5	4 13 46.68	5 8.98	21 46 19.1	15 16.2	0.190 8900	1 1522	13 25.9
6	4 18 55.66	5 9.91	22 1 35.3	14 39.6	0.189 7378	1 1705	13 27.1
7	4 24 5.57	5 10.82	22 16 14.9	14 2.6	0.188 5673	1 1890	13 28.4
8	4 29 16.39	5 11.68	22 30 17.5	13 24.9	0.187 3783	1 2073	13 29.6
9	4 34 28.07	5 12.51	+22 43 42.4	12 46.7	0.186 1710	1 2258	13 30.8
10	4 39 40.58	5 13.31	22 56 29.1	12 8.0	0.184 9452	1 2444	13 32.1
11	4 44 53.89	5 14.07	23 8 37.1	11 28.9	0.183 7008	1 2628	13 33.4
12	4 50 7.96	5 14.78	23 20 6.0	10 49.4	0.182 4380	1 2814	13 34.7
13	4 55 22.74	5 15.45	23 30 55.4	10 9.4	0.181 1566	1 3002	13 36.0
14	5 0 38.19	5 16.09	23 41 4.8	9 28.9	0.179 8564	1 3190	13 37.4
15	5 5 54.28	5 16.68	+23 50 33.7	8 48.0	0.178 5374	1 3378	13 38.7
16	5 11 10.96	5 17.21	23 59 21.7	8 7.0	0.177 1996	1 3568	13 40.0
17	5 16 28.17	5 17.69	24 7 28.7	7 25.6	0.175 8428	1 3761	13 41.4
18	5 21 45.86	5 18.12	24 14 54.3	6 43.8	0.174 4667	1 3954	13 42.7
19	5 27 3.98	5 18.50	24 21 38.1	6 1.7	0.173 0713	1 4149	13 44.1
20	5 32 22.48	5 18.83	24 27 39.8	5 19.4	0.171 6564	1 4346	13 45.5
21	5 37 41.31	5 19.08	+24 32 59.2	4 36.9	0.170 2218	1 4544	13 46.8
22	5 43 0.39	5 19.29	24 37 36.1	3 54.2	0.168 7674	1 4745	13 48.2
23	5 48 19.68	5 19.43	24 41 30.3	3 11.4	0.167 2929	1 4947	13 49.6
24	5 53 39.11	5 19.51	24 44 41.7	2 28.4	0.165 7982	1 5150	13 51.0
25	5 58 58.62	5 19.52	24 47 10.1	1 45.3	0.164 2832	1 5356	13 52.4
26	6 4 18.14	5 19.47	24 48 55.4	1 2.2	0.162 7476	1 5564	13 53.7
27	6 9 37.61	5 19.36	+24 49 57.6	0 19.0	0.161 1912	1 5774	13 55.1
28	6 14 56.97	5 19.18	24 50 16.6	0 24.2	0.159 6138	1 5985	13 56.5
29	6 20 16.15	5 18.93	24 49 52.4	1 7.3	0.158 0153	1 6198	13 57.9
30	6 25 35.08	5 18.61	24 48 45.1	1 50.4	0.156 3955	1 6413	13 59.3
31	6 30 53.69	5 18.22	24 46 54.7	2 33.3	0.154 7542	1 6630	14 0.6
Juni 1	6 36 11.91	5 17.78	24 44 21.4	3 16.2	0.153 0912	1 6846	14 2.0
2	6 41 29.69	5 17.26	+24 41 5.2	3 58.8	0.151 4066	1 7064	14 3.3
3	6 46 46.95	5 16.68	24 37 6.4	4 41.3	0.149 7002	1 7283	14 4.7
4	6 52 3.63	5 16.03	24 32 25.1	5 23.5	0.147 9719	1 7501	14 6.0
5	6 57 19.66	5 15.34	24 27 1.6	6 5.4	0.146 2218	1 7719	14 7.3
6	7 2 35.00	5 14.58	24 20 56.2	6 47.0	0.144 4499	1 7939	14 8.6
7	7 7 49.58	5 13.75	24 14 9.2	7 28.3	0.142 6560	1 8158	14 9.9
8	7 13 3.33	5 12.88	+24 6 40.9	8 9.2	0.140 8402	1 8378	14 11.2
9	7 18 16.21	5 11.97	23 58 31.7	8 49.9	0.139 0024	1 8598	14 12.5
10	7 23 28.18	5 11.00	23 49 41.8	9 30.0	0.137 1426	1 8818	14 13.7
11	7 28 39.18	5 9.98	23 40 11.8	10 9.8	0.135 2608	1 9040	14 14.9
12	7 33 49.16	5 8.92	23 30 2.0	10 49.1	0.133 3568	1 9262	14 16.2
13	7 38 58.08		+23 19 12.9		0.131 4306		14 17.4

Tag	0h Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Juni 13	7 38 58.08	5 7.82	+23 19 12.9	11 28.0	0.131 4306	1 9486	14 17.4
14	7 44 5.90	5 6.69	23 7 44.9	12 6.4	0.129 4820	1 9710	14 18.5
15	7 49 12.59	5 5.50	22 55 38.5	12 44.2	0.127 5110	1 9936	14 19.7
16	7 54 18.09	5 4.29	22 42 54.3	13 21.6	0.125 5174	2 0164	14 20.8
17	7 59 22.38	5 3.05	22 29 32.7	13 58.3	0.123 5010	2 0392	14 21.9
18	8 4 25.43	5 1.77	22 15 34.4	14 34.6	0.121 4618	2 0622	14 23.0
19	8 9 27.20	5 0.46	+22 0 59.8	15 10.2	0.119 3996	2 0855	14 24.1
20	8 14 27.66	4 59.14	21 45 49.6	15 45.4	0.117 3141	2 1089	14 25.2
21	8 19 26.80	4 57.80	21 30 4.2	16 19.9	0.115 2052	2 1324	14 26.2
22	8 24 24.60	4 56.42	21 13 44.3	16 53.7	0.113 0728	2 1563	14 27.2
23	8 29 21.02	4 55.01	20 56 50.6	17 27.0	0.110 9165	2 1804	14 28.2
24	8 34 16.03	4 53.60	20 39 23.6	17 59.6	0.108 7361	2 2047	14 29.2
25	8 39 9.63	4 52.19	+20 21 24.0	18 31.6	0.106 5314	2 2293	14 30.1
26	8 44 1.82	4 50.75	20 2 52.4	19 2.9	0.104 3021	2 2541	14 31.0
27	8 48 52.57	4 49.29	19 43 49.5	19 33.4	0.102 0480	2 2791	14 31.9
28	8 53 41.86	4 47.81	19 24 16.1	20 3.2	0.099 7689	2 3044	14 32.8
29	8 58 29.67	4 46.34	19 4 12.9	20 32.5	0.097 4645	2 3298	14 33.6
30	9 3 16.01	4 44.86	18 43 40.4	21 1.0	0.095 1347	2 3554	14 34.4
Juli 1	9 8 0.87	4 43.36	+18 22 39.4	21 28.8	0.092 7793	2 3811	14 35.2
2	9 12 44.23	4 41.87	18 1 10.6	21 55.7	0.090 3982	2 4068	14 36.0
3	9 17 26.10	4 40.38	17 39 14.9	22 22.1	0.087 9914	2 4327	14 36.7
4	9 22 6.48	4 38.88	17 16 52.8	22 47.6	0.085 5587	2 4587	14 37.4
5	9 26 45.36	4 37.40	16 54 5.2	23 12.5	0.083 1000	2 4846	14 38.1
6	9 31 22.76	4 35.93	16 30 52.7	23 36.7	0.080 6154	2 5106	14 38.8
7	9 35 58.69	4 34.46	+16 7 16.0	24 0.0	0.078 1048	2 5367	14 39.4
8	9 40 33.15	4 33.00	15 43 16.0	24 22.7	0.075 5681	2 5630	14 40.0
9	9 45 6.15	4 31.57	15 18 53.3	24 44.7	0.073 0051	2 5894	14 40.6
10	9 49 37.72	4 30.14	14 54 8.6	25 6.0	0.070 4157	2 6157	14 41.2
11	9 54 7.86	4 28.74	14 29 2.6	25 26.5	0.067 8000	2 6423	14 41.7
12	9 58 36.60	4 27.35	14 3 36.1	25 46.4	0.065 1577	2 6690	14 42.3
13	10 3 3.95	4 25.98	+13 37 49.7	26 5.5	0.062 4887	2 6958	14 42.8
14	10 7 29.93	4 24.64	13 11 44.2	26 24.0	0.059 7929	2 7229	14 43.3
15	10 11 54.57	4 23.31	12 45 20.2	26 41.8	0.057 0700	2 7502	14 43.7
16	10 16 17.88	4 22.01	12 18 38.4	26 58.8	0.054 3198	2 7776	14 44.1
17	10 20 39.89	4 20.73	11 51 39.6	27 15.3	0.051 5422	2 8053	14 44.5
18	10 25 0.62	4 19.49	11 24 24.3	27 31.0	0.048 7369	2 8333	14 44.9
19	10 29 20.11	4 18.26	+10 56 53.3	27 46.1	0.045 9036	2 8614	14 45.3
20	10 33 38.37	4 17.05	10 29 7.2	28 0.4	0.043 0422	2 8899	14 45.7
21	10 37 55.42	4 15.89	10 1 6.8	28 14.1	0.040 1523	2 9188	14 46.0
22	10 42 11.31	4 14.74	9 32 52.7	28 27.2	0.037 2335	2 9479	14 46.3
23	10 46 26.05	4 13.63	9 4 25.5	28 39.7	0.034 2856	2 9774	14 46.6
24	10 50 39.68		+ 8 35 45.8		0.031 3082		14 46.9

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Juli 24	10 50 39.68	4 12.53	+ 8 35 45.8	28 51.3	0.031 3082	3 0075	14 46.9
25	10 54 52.21	4 11.45	8 6 54.5	29 2.3	0.028 3007	3 0378	14 47.1
26	10 59 3.66	4 10.40	7 37 52.2	29 12.7	0.025 2629	3 0684	14 47.3
27	11 3 14.06	4 9.38	7 8 39.5	29 22.3	0.022 1945	3 0995	14 47.6
28	11 7 23.44	4 8.39	6 39 17.2	29 31.2	0.019 0950	3 1310	14 47.8
29	11 11 31.83	4 7.40	6 9 46.0	29 39.5	0.015 9640	3 1627	14 48.0
30	11 15 39.23	4 6.44	+ 5 40 6.5	29 47.0	0.012 8013	3 1947	14 48.1
31	11 19 45.67	4 5.51	5 10 19.5	29 54.0	0.009 6066	3 2270	14 48.3
Aug. 1	11 23 51.18	4 4.60	4 40 25.5	30 0.2	0.006 3796	3 2595	14 48.4
2	11 27 55.78	4 3.72	4 10 25.3	30 5.8	0.003 1201	3 2922	14 48.5
3	11 31 59.50	4 2.86	3 40 19.5	30 10.7	9.999 8279	3 3249	14 48.7
4	11 36 2.36	4 2.03	3 10 8.8	30 14.9	9.996 5030	3 3579	14 48.8
5	11 40 4.39	4 1.22	+ 2 39 53.9	30 18.5	9.993 1451	3 3912	14 48.8
6	11 44 5.61	4 0.43	2 9 35.4	30 21.4	9.989 7539	3 4248	14 48.9
7	11 48 6.04	3 59.68	1 39 14.0	30 23.8	9.986 3291	3 4586	14 49.0
8	11 52 5.72	3 58.94	1 8 50.2	30 25.5	9.982 8705	3 4927	14 49.0
9	11 56 4.66	3 58.24	0 38 24.7	30 26.7	9.979 3778	3 5270	14 49.0
10	12 0 2.90	3 57.56	+ 0 7 58.0	30 27.2	9.975 8508	3 5617	14 49.1
11	12 4 0.46	3 56.90	− 0 22 29.2	30 27.0	9.972 2891	3 5966	14 49.1
12	12 7 57.36	3 56.27	0 52 56.2	30 26.3	9.968 6925	3 6318	14 49.1
13	12 11 53.63	3 55.67	1 23 22.5	30 25.0	9.965 0607	3 6674	14 49.1
14	12 15 49.30	3 55.08	1 53 47.5	30 23.1	9.961 3933	3 7034	14 49.1
15	12 19 44.38	3 54.52	2 24 10.6	30 20.7	9.957 6899	3 7399	14 49.0
16	12 23 38.90	3 53.99	2 54 31.3	30 17.6	9.953 9500	3 7768	14 49.0
17	12 27 32.89	3 53.47	− 3 24 48.9	30 14.0	9.950 1732	3 8142	14 48.9
18	12 31 26.36	3 52.97	3 55 2.9	30 9.8	9.946 3590	3 8521	14 48.9
19	12 35 19.33	3 52.50	4 25 12.7	30 5.1	9.942 5069	3 8905	14 48.8
20	12 39 11.83	3 52.03	4 55 17.8	29 59.7	9.938 6164	3 9295	14 48.7
21	12 43 3.86	3 51.59	5 25 17.5	29 53.7	9.934 6869	3 9691	14 48.7
22	12 46 55.45	3 51.15	5 55 11.2	29 47.2	9.930 7178	4 0096	14 48.6
23	12 50 46.60	3 50.73	− 6 24 58.4	29 40.1	9.926 7082	4 0506	14 48.5
24	12 54 37.33	3 50.31	6 54 38.5	29 32.3	9.922 6576	4 0923	14 48.4
25	12 58 27.64	3 49.90	7 24 10.8	29 23.9	9.918 5653	4 1348	14 48.3
26	13 2 17.54	3 49.48	7 53 34.7	29 14.9	9.914 4305	4 1779	14 48.1
27	13 6 7.02	3 49.07	8 22 49.6	29 5.2	9.910 2526	4 2216	14 48.0
28	13 9 56.09	3 48.65	8 51 54.8	28 55.0	9.906 0310	4 2659	14 47.9
29	13 13 44.74	3 48.23	− 9 20 49.8	28 44.1	9.901 7651	4 3107	14 47.8
30	13 17 32.97	3 47.79	9 49 33.9	28 32.5	9.897 4544	4 3558	14 47.6
31	13 21 20.76	3 47.35	10 18 6.4	28 20.4	9.893 0986	4 4015	14 47.5
Sept. 1	13 25 8.11	3 46.91	10 46 26.8	28 7.6	9.888 6971	4 4478	14 47.3
2	13 28 55.02	3 46.45	11 14 34.4	27 54.2	9.884 2493	4 4944	14 47.2
3	13 32 41.47		− 11 42 28.6		9.879 7549		14 47.0

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	13 32 41.47	3 45.98	—11 42 28.6	27 40.3	9.879 7549	4 5415	14 47.0
4	13 36 27.45	3 45.50	12 10 8.9	27 25.7	9.875 2134	4 5893	14 46.8
5	13 40 12.95	3 45.00	12 37 34.6	27 10.7	9.870 6241	4 6375	14 46.6
6	13 43 57.95	3 44.47	13 4 45.3	26 55.0	9.865 9866	4 6862	14 46.4
7	13 47 42.42	3 43.93	13 31 40.3	26 38.7	9.861 3004	4 7353	14 46.2
8	13 51 26.35	3 43.37	13 58 19.0	26 22.0	9.856 5651	4 7851	14 46.0
9	13 55 9.72	3 42.78	—14 24 41.0	26 4.6	9.851 7800	4 8353	14 45.7
10	13 58 52.50	3 42.15	14 50 45.6	25 46.8	9.846 9447	4 8861	14 45.5
11	14 2 34.65	3 41.50	15 16 32.4	25 28.4	9.842 0586	4 9375	14 45.3
12	14 6 16.15	3 40.82	15 42 0.8	25 9.5	9.837 1211	4 9895	14 45.0
13	14 9 56.97	3 40.09	16 7 10.3	24 50.0	9.832 1316	5 0422	14 44.7
14	14 13 37.06	3 39.33	16 32 0.3	24 30.1	9.827 0894	5 0955	14 44.5
15	14 17 16.39	3 38.52	—16 56 30.4	24 9.6	9.821 9939	5 1495	14 44.2
16	14 20 54.91	3 37.66	17 20 40.0	23 48.7	9.816 8444	5 2042	14 43.8
17	14 24 32.57	3 36.75	17 44 28.7	23 27.2	9.811 6402	5 2598	14 43.5
18	14 28 9.32	3 35.77	18 7 55.9	23 5.3	9.806 3804	5 3162	14 43.2
19	14 31 45.09	3 34.73	18 31 1.2	22 42.8	9.801 0642	5 3736	14 42.8
20	14 35 19.82	3 33.62	18 53 44.0	22 19.8	9.795 6906	5 4318	14 42.5
21	14 38 53.44	3 32.43	—19 16 3.8	21 56.4	9.790 2588	5 4909	14 42.1
22	14 42 25.87	3 31.15	19 38 0.2	21 32.4	9.784 7679	5 5508	14 41.7
23	14 45 57.02	3 29.77	19 59 32.6	21 7.8	9.779 2171	5 6116	14 41.2
24	14 49 26.79	3 28.28	20 20 40.4	20 42.7	9.773 6055	5 6731	14 40.8
25	14 52 55.07	3 26.70	20 41 23.1	20 17.1	9.767 9324	5 7352	14 40.3
26	14 56 21.77	3 25.00	21 1 40.2	19 50.9	9.762 1972	5 7979	14 39.8
27	14 59 46.77	3 23.16	—21 21 31.1	19 24.3	9.756 3993	5 8610	14 39.2
28	15 3 9.93	3 21.19	21 40 55.4	18 57.2	9.750 5383	5 9243	14 38.6
29	15 6 31.12	3 19.10	21 59 52.6	18 29.5	9.744 6140	5 9881	14 38.0
30	15 9 50.22	3 16.86	22 18 22.1	18 1.3	9.738 6259	6 0520	14 37.4
Okt. 1	15 13 7.08	3 14.46	22 36 23.4	17 32.7	9.732 5739	6 1158	14 36.7
2	15 16 21.54	3 11.92	22 53 56.1	17 3.6	9.726 4581	6 1795	14 36.0
3	15 19 33.46	3 9.22	—23 10 59.7	16 34.1	9.720 2786	6 2431	14 35.2
4	15 22 42.68	3 6.35	23 27 33.8	16 4.0	9.714 0355	6 3063	14 34.4
5	15 25 49.03	3 3.29	23 43 37.8	15 33.5	9.707 7292	6 3693	14 33.5
6	15 28 52.32	3 0.05	23 59 11.3	15 2.7	9.701 3599	6 4317	14 32.6
7	15 31 52.37	2 56.62	24 14 14.0	14 31.3	9.694 9282	6 4933	14 31.6
8	15 34 48.99	2 53.01	24 28 45.3	13 59.5	9.688 4349	6 5541	14 30.6
9	15 37 42.00	2 49.17	—24 42 44.8	13 27.2	9.681 8808	6 6139	14 29.5
10	15 40 31.17	2 45.13	24 56 12.0	12 54.6	9.675 2669	6 6723	14 28.3
11	15 43 16.30	2 40.88	25 9 6.6	12 21.4	9.668 5946	6 7293	14 27.1
12	15 45 57.18	2 36.38	25 21 28.0	11 47.7	9.661 8653	6 7849	14 25.8
13	15 48 33.56	2 31.65	25 33 15.7	11 13.5	9.655 0804	6 8387	14 24.4
14	15 51 5.21		—25 44 29.2		9.648 2417		14 22.9

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	15 51 5.21	2 26.69	−25 44 29.2	10 39.0	9.648 2417	6 8900	14 22.9
15	15 53 31.90	2 21.50	25 55 8.2	10 3.8	9.641 3517	6 9389	14 21.4
16	15 55 53.40	2 16.04	26 5 12.0	9 28.0	9.634 4128	6 9855	14 19.8
17	15 58 9.44	2 10.29	26 14 40.0	8 51.6	9.627 4273	7 0292	14 18.0
18	16 0 19.73	2 4.27	26 23 31.6	8 14.4	9.620 3981	7 0696	14 16.2
19	16 2 24.00	1 57.97	26 31 46.0	7 36.7	9.613 3285	7 1061	14 14.3
20	16 4 21.97	1 51.38	−26 39 22.7	6 58.2	9.606 2224	7 1379	14 12.2
21	16 6 13.35	1 44.49	26 46 20.9	6 18.6	9.599 0845	7 1649	14 10.1
22	16 7 57.84	1 37.28	26 52 39.5	5 38.1	9.591 9196	7 1866	14 7.8
23	16 9 35.12	1 29.76	26 58 17.6	4 56.6	9.584 7330	7 2018	14 5.4
24	16 11 4.88	1 21.92	27 3 14.2	4 14.2	9.577 5312	7 2097	14 2.9
25	16 12 26.80	1 13.77	27 7 28.4	3 30.5	9.570 3215	7 2093	14 0.2
26	16 13 40.57	1 5.30	−27 10 58.9	2 45.4	9.563 1122	7 1998	13 57.5
27	16 14 45.87	0 56.55	27 13 44.3	1 59.1	9.555 9124	7 1802	13 54.5
28	16 15 42.42	0 47.52	27 15 43.4	1 11.3	9.548 7322	7 1493	13 51.4
29	16 16 29.94	0 38.21	27 16 54.7	0 22.2	9.541 5829	7 1062	13 48.2
30	16 17 8.15	0 28.65	27 17 16.9	0 28.5	9.534 4767	7 0499	13 44.8
31	16 17 36.80	0 18.88	27 16 48.4	1 21.0	9.527 4268	6 9791	13 41.3
Nov. 1	16 17 55.68	0 8.92	−27 15 27.4	2 15.1	9.520 4477	6 8925	13 37.6
2	16 18 4.60	0 1.20	27 13 12.3	3 10.7	9.513 5552	6 7891	13 33.7
3	16 18 3.40	0 11.43	27 10 1.6	4 8.0	9.506 7661	6 6675	13 29.6
4	16 17 51.97	0 21.74	27 5 53.6	5 7.0	9.500 0986	6 5268	13 25.4
5	16 17 30.23	0 32.05	27 0 46.6	6 7.6	9.493 5718	6 3659	13 21.0
6	16 16 58.18	0 42.29	26 54 39.0	7 9.7	9.487 2059	6 1837	13 16.5
7	16 16 15.89	0 52.42	−26 47 29.3	8 13.1	9.481 0222	5 9790	13 11.8
8	16 15 23.47	1 2.37	26 39 16.2	9 17.6	9.475 0432	5 7515	13 6.9
9	16 14 21.10	1 12.04	26 29 58.6	10 23.0	9.469 2917	5 5007	13 1.8
10	16 13 9.06	1 21.34	26 19 35.6	11 28.8	9.463 7910	5 2264	12 56.6
11	16 11 47.72	1 30.25	26 8 6.8	12 34.9	9.458 5646	4 9283	12 51.2
12	16 10 17.47	1 38.65	25 55 31.9	13 40.7	9.453 6363	4 6068	12 45.7
13	16 8 38.82	1 46.43	−25 41 51.2	14 45.8	9.449 0295	4 2620	12 40.1
14	16 6 52.39	1 53.57	25 27 5.4	15 49.5	9.444 7675	3 8947	12 34.4
15	16 4 58.82	1 59.99	25 11 15.9	16 51.2	9.440 8728	3 5061	12 28.5
16	16 2 58.83	2 5.62	24 54 24.7	17 50.4	9.437 3667	3 0982	12 22.5
17	16 0 53.21	2 10.38	24 36 34.3	18 46.3	9.434 2685	2 6725	12 16.5
18	15 58 42.83	2 14.23	24 17 48.0	19 38.4	9.431 5960	2 2305	12 10.3
19	15 56 28.60	2 17.13	−23 58 9.6	20 26.1	9.429 3655	1 7740	12 4.2
20	15 54 11.47	2 19.06	23 37 43.5	21 8.5	9.427 5915	1 3061	11 57.9
21	15 51 52.41	2 20.00	23 16 35.0	21 45.2	9.426 2854	8298	11 51.7
22	15 49 32.41	2 19.92	22 54 49.8	22 15.8	9.425 4556	3478	11 45.4
23	15 47 12.49	2 18.85	22 32 34.0	22 39.4	9.425 1078	1371	11 39.2
24	15 44 53.64		−22 9 54.6		9.425 2449		11 33.0

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	15 44 53.64	2 16.79	−22 9 54.6	22 55.7	9.425 2449	6215	11 33.0
25	15 42 36.85	2 13.77	21 46 58.9	23 4.8	9.425 8664	1 1022	11 26.8
26	15 40 23.08	2 9.84	21 23 54.1	23 6.5	9.426 9686	1 5762	11 20.7
27	15 38 13.24	2 5.05	21 0 47.6	23 0.5	9.428 5448	2 0404	11 14.7
28	15 36 8.19	1 59.43	20 37 47.1	22 47.1	9.430 5852	2 4916	11 8.7
29	15 34 8.76	1 53.06	20 15 0.0	22 26.4	9.433 0768	2 9274	11 2.8
30	15 32 15.70	1 46.04	−19 52 33.6	21 59.0	9.436 0042	3 3456	10 57.1
Dez. 1	15 30 29.66	1 38.43	19 30 34.6	21 25.1	9.439 3498	3 7444	10 51.5
2	15 28 51.23	1 30.32	19 9 9.5	20 45.2	9.443 0942	4 1223	10 46.0
3	15 27 20.91	1 21.75	18 48 24.3	19 59.7	9.447 2165	4 4778	10 40.6
4	15 25 59.16	1 12.81	18 28 24.6	19 9.4	9.451 6943	4 8101	10 35.4
5	15 24 46.35	1 3.59	18 9 15.2	18 15.0	9.456 5044	5 1185	10 30.3
6	15 23 42.76	0 54.16	−17 51 0.2	17 17.0	9.461 6229	5 4024	10 25.4
7	15 22 48.60	0 44.56	17 33 43.2	16 16.2	9.467 0253	5 6618	10 20.6
8	15 22 4.04	0 34.87	17 17 27.0	15 13.1	9.472 6871	5 8973	10 16.0
9	15 21 29.17	0 25.14	17 2 13.9	14 8.1	9.478 5844	6 1093	10 11.6
10	15 21 4.03	0 15.43	16 48 5.8	13 2.1	9.484 6937	6 2984	10 7.3
11	15 20 48.60	0 5.79	16 35 3.7	11 55.8	9.490 9921	6 4655	10 3.2
12	15 20 42.81	0 3.72	−16 23 7.9	10 49.2	9.497 4576	6 6117	9 59.2
13	15 20 46.53	0 13.12	16 12 18.7	9 42.9	9.504 0693	6 7379	9 55.4
14	15 20 59.65	0 22.35	16 2 35.8	8 37.4	9.510 8072	6 8456	9 51.8
15	15 21 22.00	0 31.37	15 53 58.4	7 33.3	9.517 6528	6 9364	9 48.3
16	15 21 53.37	0 40.19	15 46 25.1	6 30.4	9.524 5892	7 0110	9 44.9
17	15 22 33.56	0 48.78	15 39 54.7	5 28.9	9.531 6002	7 0708	9 41.7
18	15 23 22.34	0 57.15	−15 34 25.8	4 29.3	9.538 6710	7 1172	9 38.6
19	15 24 19.49	1 5.27	15 29 56.5	3 31.9	9.545 7882	7 1517	9 35.7
20	15 25 24.76	1 13.16	15 26 24.6	2 36.4	9.552 9399	7 1750	9 32.9
21	15 26 37.92	1 20.82	15 23 48.2	1 43.0	9.560 1149	7 1877	9 30.2
22	15 27 58.74	1 28.23	15 22 5.2	0 51.8	9.567 3026	7 1913	9 27.7
23	15 29 26.97	1 35.41	15 21 13.4	0 2.9	9.574 4939	7 1867	9 25.3
24	15 31 2.38	1 42.36	−15 21 10.5	0 43.5	9.581 6806	7 1748	9 23.0
25	15 32 44.74	1 49.09	15 21 54.0	1 27.7	9.588 8554	7 1561	9 20.8
26	15 34 33.83	1 55.61	15 23 21.7	2 9.7	9.596 0115	7 1313	9 18.7
27	15 36 29.44	2 1.94	15 25 31.4	2 49.3	9.603 1428	7 1010	9 16.7
28	15 38 31.38	2 8.05	15 28 20.7	3 26.6	9.610 2438	7 0659	9 14.9
29	15 40 39.43	2 13.96	15 31 47.3	4 1.6	9.617 3097	7 0264	9 13.1
30	15 42 53.39	2 19.70	−15 35 48.9	4 34.3	9.624 3361	6 9831	9 11.4
31	15 45 13.09	2 25.25	15 40 23.2	5 4.8	9.631 3192	6 9364	9 9.9
32	15 47 38.34		−15 45 28.0		9.638 2556		9 8.4

Tag	0h Welt-Zeit: Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	18 5 6.38	3 17.69	−24 6 52.7	0 0.1	0.385 4961	4070	11 29.1
1	18 8 24.07	3 17.88	24 6 52.8	0 15.5	0.385 0891	4118	11 28.4
2	18 11 41.95	3 18.04	24 6 37.3	0 31.3	0.384 6773	4164	11 27.8
3	18 14 59.99	3 18.19	24 6 6.0	0 47.0	0.384 2609	4210	11 27.1
4	18 18 18.18	3 18.32	24 5 19.0	1 2.8	0.383 8399	4255	11 26.4
5	18 21 36.50	3 18.44	24 4 16.2	1 18.6	0.383 4144	4300	11 25.8
6	18 24 54.94	3 18.54	−24 2 57.6	1 34.5	0.382 9844	4342	11 25.2
7	18 28 13.48	3 18.62	24 1 23.1	1 50.2	0.382 5502	4384	11 24.6
8	18 31 32.10	3 18.69	23 59 32.9	2 6.0	0.382 1118	4426	11 23.9
9	18 34 50.79	3 18.75	23 57 26.9	2 21.9	0.381 6692	4465	11 23.3
10	18 38 9.54	3 18.78	23 55 5.0	2 37.8	0.381 2227	4503	11 22.7
11	18 41 28.32	3 18.81	23 52 27.2	2 53.6	0.380 7724	4541	11 22.0
12	18 44 47.13	3 18.82	−23 49 33.6	3 9.4	0.380 3183	4577	11 21.4
13	18 48 5.95	3 18.83	23 46 24.2	3 25.1	0.379 8606	4613	11 20.8
14	18 51 24.78	3 18.82	23 42 59.1	3 40.9	0.379 3993	4647	11 20.2
15	18 54 43.60	3 18.79	23 39 18.2	3 56.7	0.378 9346	4680	11 19.5
16	18 58 2.39	3 18.75	23 35 21.5	4 12.4	0.378 4666	4714	11 18.9
17	19 1 21.14	3 18.70	23 31 9.1	4 28.1	0.377 9952	4747	11 18.3
18	19 4 39.84	3 18.63	−23 26 41.0	4 43.7	0.377 5205	4780	11 17.6
19	19 7 58.47	3 18.56	23 21 57.3	4 59.3	0.377 0425	4814	11 17.0
20	19 11 17.03	3 18.48	23 16 58.0	5 14.9	0.376 5611	4848	11 16.4
21	19 14 35.51	3 18.37	23 11 43.1	5 30.4	0.376 0763	4881	11 15.7
22	19 17 53.88	3 18.25	23 6 12.7	5 45.8	0.375 5882	4915	11 15.1
23	19 21 12.13	3 18.13	23 0 26.9	6 1.2	0.375 0967	4948	11 14.5
24	19 24 30.26	3 17.98	−22 54 25.7	6 16.5	0.374 6019	4980	11 13.8
25	19 27 48.24	3 17.82	22 48 9.2	6 31.8	0.374 1039	5012	11 13.2
26	19 31 6.06	3 17.64	22 41 37.4	6 46.9	0.373 6027	5045	11 12.6
27	19 34 23.70	3 17.45	22 34 50.5	7 2.1	0.373 0982	5077	11 11.9
28	19 37 41.15	3 17.26	22 27 48.4	7 17.1	0.372 5905	5109	11 11.3
29	19 40 58.41	3 17.04	22 20 31.3	7 31.9	0.372 0796	5140	11 10.6
30	19 44 15.45	3 16.82	−22 12 59.4	7 46.7	0.371 5656	5170	11 9.9
31	19 47 32.27	3 16.58	22 5 12.7	8 1.4	0.371 0486	5200	11 9.2
Febr. 1	19 50 48.85	3 16.32	21 57 11.3	8 16.0	0.370 5286	5228	11 8.6
2	19 54 5.17	3 16.05	21 48 55.3	8 30.5	0.370 0058	5256	11 7.9
3	19 57 21.22	3 15.78	21 40 24.8	8 44.8	0.369 4802	5283	11 7.2
4	20 0 37.00	3 15.50	21 31 40.0	8 59.1	0.368 9519	5309	11 6.6
5	20 3 52.50	3 15.20	−21 22 40.9	9 13.1	0.368 4210	5333	11 5.9
6	20 7 7.70	3 14.90	21 13 27.8	9 27.1	0.367 8877	5356	11 5.2
7	20 10 22.60	3 14.59	21 4 0.7	9 40.9	0.367 3521	5379	11 4.5
8	20 13 37.19	3 14.26	20 54 19.8	9 54.7	0.366 8142	5401	11 3.8
9	20 16 51.45	3 13.93	20 44 25.1	10 8.2	0.366 2741	5421	11 3.1
10	20 20 5.38		−20 34 16.9		0.365 7320		11 2.4

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	20 20 5.38	3 13.61	−20 34 16.9	10 21.7	0.365 7320	5440	11 2.4
11	20 23 18.99	3 13.27	20 23 55.2	10 35.0	0.365 1880	5459	11 1.6
12	20 26 32.26	3 12.93	20 13 20.2	10 48.2	0.364 6421	5476	11 0.9
13	20 29 45.19	3 12.58	20 2 32.0	11 1.1	0.364 0945	5494	11 0.2
14	20 32 57.77	3 12.23	19 51 30.9	11 14.0	0.363 5451	5512	10 59.5
15	20 36 10.00	3 11.87	19 40 16.9	11 26.9	0.362 9939	5529	10 58.7
16	20 39 21.87	3 11.51	−19 28 50.0	11 39.4	0.362 4410	5546	10 58.0
17	20 42 33.38	3 11.16	19 17 10.6	11 51.8	0.361 8864	5563	10 57.2
18	20 45 44.54	3 10.79	19 5 18.8	12 4.1	0.361 3301	5581	10 56.5
19	20 48 55.33	3 10.41	18 53 14.7	12 16.3	0.360 7720	5599	10 55.7
20	20 52 5.74	3 10.05	18 40 58.4	12 28.2	0.360 2121	5617	10 54.9
21	20 55 15.79	3 9.67	18 28 30.2	12 39.9	0.359 6504	5635	10 54.1
22	20 58 25.46	3 9.27	−18 15 50.3	12 51.6	0.359 0869	5652	10 53.3
23	21 1 34.73	3 8.88	18 2 58.7	13 3.1	0.358 5217	5671	10 52.5
24	21 4 43.61	3 8.49	17 49 55.6	13 14.3	0.357 9546	5689	10 51.7
25	21 7 52.10	3 8.10	17 36 41.3	13 25.4	0.357 3857	5705	10 50.9
26	21 11 0.20	3 7.70	17 23 15.9	13 36.3	0.356 8152	5722	10 50.1
27	21 14 7.90	3 7.29	17 9 39.6	13 47.1	0.356 2430	5739	10 49.3
28	21 17 15.19	3 6.89	−16 55 52.5	13 57.6	0.355 6691	5756	10 48.5
März 1	21 20 22.08	3 6.49	16 41 54.9	14 7.9	0.355 0935	5772	10 47.7
2	21 23 28.57	3 6.08	16 27 47.0	14 18.0	0.354 5163	5788	10 46.9
3	21 26 34.65	3 5.66	16 13 29.0	14 28.0	0.353 9375	5802	10 46.0
4	21 29 40.31	3 5.25	15 59 1.0	14 37.7	0.353 3573	5816	10 45.1
5	21 32 45.56	3 4.84	15 44 23.3	14 47.2	0.352 7757	5829	10 44.3
6	21 35 50.40	3 4.44	−15 29 36.1	14 56.6	0.352 1928	5841	10 43.4
7	21 38 54.84	3 4.03	15 14 39.5	15 5.7	0.351 6087	5853	10 42.6
8	21 41 58.87	3 3.61	14 59 33.8	15 14.7	0.351 0234	5863	10 41.7
9	21 45 2.48	3 3.20	14 44 19.1	15 23.5	0.350 4371	5873	10 40.8
10	21 48 5.68	3 2.80	14 28 55.6	15 32.1	0.349 8498	5881	10 39.9
11	21 51 8.48	3 2.41	14 13 23.5	15 40.4	0.349 2617	5889	10 39.0
12	21 54 10.89	3 2.01	−13 57 43.1	15 48.6	0.348 6728	5897	10 38.1
13	21 57 12.90	3 1.62	13 41 54.5	15 56.7	0.348 0831	5904	10 37.2
14	22 0 14.52	3 1.24	13 25 57.8	16 4.5	0.347 4927	5911	10 36.3
15	22 3 15.76	3 0.87	13 9 53.3	16 12.2	0.346 9016	5918	10 35.3
16	22 6 16.63	3 0.49	12 53 41.1	16 19.6	0.346 3098	5925	10 34.4
17	22 9 17.12	3 0.12	12 37 21.5	16 26.9	0.345 7173	5933	10 33.5
18	22 12 17.24	2 59.75	−12 20 54.6	16 34.1	0.345 1240	5941	10 32.5
19	22 15 16.99	2 59.40	12 4 20.5	16 40.9	0.344 5299	5950	10 31.6
20	22 18 16.39	2 59.05	11 47 39.6	16 47.7	0.343 9349	5960	10 30.7
21	22 21 15.44	2 58.69	11 30 51.9	16 54.2	0.343 3389	5970	10 29.7
22	22 24 14.13	2 58.34	11 13 57.7	17 0.4	0.342 7419	5980	10 28.7
23	22 27 12.47		−10 56 57.3		0.342 1439		10 27.8

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
März 23	22 27 12.47	2 58.00	−10 56 57.3	17 6.5	0.342 1439	5991	10 27.8
24	22 30 10.47	2 57.66	10 39 50.8	17 12.4	0.341 5448	6001	10 26.8
25	22 33 8.13	2 57.33	10 22 38.4	17 18.1	0.340 9447	6011	10 25.8
26	22 36 5.46	2 56.99	10 5 20.3	17 23.6	0.340 3436	6022	10 24.8
27	22 39 2.45	2 56.67	9 47 56.7	17 28.9	0.339 7414	6033	10 23.8
28	22 41 59.12	2 56.35	9 30 27.8	17 33.9	0.339 1381	6045	10 22.8
29	22 44 55.47	2 56.03	− 9 12 53.9	17 38.8	0.338 5336	6055	10 21.8
30	22 47 51.50	2 55.71	8 55 15.1	17 43.4	0.337 9281	6066	10 20.8
31	22 50 47.21	2 55.40	8 37 31.7	17 47.8	0.337 3215	6078	10 19.8
April 1	22 53 42.61	2 55.10	8 19 43.9	17 52.0	0.336 7137	6089	10 18.7
2	22 56 37.71	2 54.80	8 1 51.9	17 56.1	0.336 1048	6099	10 17.7
3	22 59 32.51	2 54.51	7 43 55.8	17 59.8	0.335 4949	6109	10 16.7
4	23 2 27.02	2 54.21	− 7 25 56.0	18 3.4	0.334 8840	6118	10 15.6
5	23 5 21.23	2 53.93	7 7 52.6	18 6.8	0.334 2722	6126	10 14.6
6	23 8 15.16	2 53.67	6 49 45.8	18 10.1	0.333 6596	6134	10 13.6
7	23 11 8.83	2 53.40	6 31 35.7	18 13.0	0.333 0462	6140	10 12.5
8	23 14 2.23	2 53.14	6 13 22.7	18 15.8	0.332 4322	6147	10 11.5
9	23 16 55.37	2 52.89	5 55 6.9	18 18.4	0.331 8175	6154	10 10.4
10	23 19 48.26	2 52.65	− 5 36 48.5	18 20.9	0.331 2021	6160	10 9.4
11	23 22 40.91	2 52.42	5 18 27.6	18 23.2	0.330 5861	6167	10 8.3
12	23 25 33.33	2 52.19	5 0 4.4	18 25.3	0.329 9694	6175	10 7.2
13	23 28 25.52	2 51.98	4 41 39.1	18 27.1	0.329 3519	6183	10 6.1
14	23 31 17.50	2 51.79	4 23 12.0	18 28.9	0.328 7336	6191	10 5.1
15	23 34 9.29	2 51.59	4 4 43.1	18 30.5	0.328 1145	6199	10 4.0
16	23 37 0.88	2 51.40	− 3 46 12.6	18 31.8	0.327 4946	6209	10 2.9
17	23 39 52.28	2 51.22	3 27 40.8	18 32.9	0.326 8737	6221	10 1.8
18	23 42 43.50	2 51.05	3 9 7.9	18 34.0	0.326 2516	6232	10 0.7
19	23 45 34.55	2 50.88	2 50 33.9	18 34.8	0.325 6284	6244	9 59.6
20	23 48 25.43	2 50.73	2 31 59.1	18 35.5	0.325 0040	6257	9 58.5
21	23 51 16.16	2 50.58	2 13 23.6	18 35.9	0.324 3783	6272	9 57.4
22	23 54 6.74	2 50.44	− 1 54 47.7	18 36.1	0.323 7511	6287	9 56.3
23	23 56 57.18	2 50.29	1 36 11.6	18 36.1	0.323 1224	6303	9 55.2
24	23 59 47.47	2 50.15	1 17 35.5	18 35.9	0.322 4921	6319	9 54.1
25	0 2 37.62	2 50.02	0 58 59.6	18 35.5	0.321 8602	6335	9 53.0
26	0 5 27.64	2 49.90	0 40 24.1	18 34.9	0.321 2267	6351	9 51.9
27	0 8 17.54	2 49.79	0 21 49.2	18 34.2	0.320 5916	6368	9 50.8
28	0 11 7.33	2 49.67	− 0 3 15.0	18 33.2	0.319 9548	6387	9 49.7
29	0 13 57.00	2 49.56	+ 0 15 18.2	18 31.9	0.319 3161	6405	9 48.6
30	0 16 46.56	2 49.47	0 33 50.1	18 30.6	0.318 6756	6424	9 47.5
Mai 1	0 19 36.03	2 49.39	0 52 20.7	18 29.2	0.318 0332	6442	9 46.4
2	0 22 25.42	2 49.30	1 10 49.9	18 27.4	0.317 3890	6461	9 45.2
3	0 25 14.72		+ 1 29 17.3		0.316 7429		9 44.1

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Mai 3	0 25 14.72	2 49.21	+ 1 29 17.3	18 25.5	0.316 7429	6478	9 44.1
4	0 28 3.93	2 49.14	1 47 42.8	18 23.4	0.316 0951	6496	9 43.0
5	0 30 53.07	2 49.08	2 6 6.2	18 21.1	0.315 4455	6513	9 41.9
6	0 33 42.15	2 49.01	2 24 27.3	18 18.6	0.314 7942	6530	9 40.7
7	0 36 31.16	2 48.96	2 42 45.9	18 16.0	0.314 1412	6548	9 39.6
8	0 39 20.12	2 48.92	3 1 1.9	18 13.2	0.313 4864	6565	9 38.5
9	0 42 9.04	2 48.89	+ 3 19 15.1	18 10.3	0.312 8299	6584	9 37.3
10	0 44 57.93	2 48.87	3 37 25.4	18 7.2	0.312 1715	6603	9 36.2
11	0 47 46.80	2 48.85	3 55 32.6	18 4.0	0.311 5112	6621	9 35.1
12	0 50 35.65	2 48.84	4 13 36.6	18 0.6	0.310 8491	6641	9 34.0
13	0 53 24.49	2 48.84	4 31 37.2	17 57.0	0.310 1850	6662	9 32.8
14	0 56 13.33	2 48.85	4 49 34.2	17 53.3	0.309 5188	6685	9 31.7
15	0 59 2.18	2 48.86	+ 5 7 27.5	17 49.4	0.308 8503	6710	9 30.6
16	1 1 51.04	2 48.89	5 25 16.9	17 45.4	0.308 1793	6734	9 29.4
17	1 4 39.93	2 48.91	5 43 2.3	17 41.2	0.307 5059	6760	9 28.3
18	1 7 28.84	2 48.93	6 0 43.5	17 36.8	0.306 8299	6788	9 27.2
19	1 10 17.77	2 48.97	6 18 20.3	17 32.3	0.306 1511	6817	9 26.1
20	1 13 6.74	2 49.02	6 35 52.6	17 27.5	0.305 4694	6846	9 24.9
21	1 15 55.76	2 49.07	+ 6 53 20.1	17 22.6	0.304 7848	6878	9 23.8
22	1 18 44.83	2 49.12	7 10 42.7	17 17.5	0.304 0970	6910	9 22.7
23	1 21 33.95	2 49.17	7 28 0.2	17 12.4	0.303 4060	6943	9 21.6
24	1 24 23.12	2 49.23	7 45 12.6	17 7.0	0.302 7117	6979	9 20.5
25	1 27 12.35	2 49.29	8 2 19.6	17 1.4	0.302 0138	7015	9 19.4
26	1 30 1.64	2 49.35	8 19 21.0	16 55.7	0.301 3123	7050	9 18.2
27	1 32 50.99	2 49.41	+ 8 36 16.7	16 49.8	0.300 6073	7087	9 17.1
28	1 35 40.40	2 49.48	8 53 6.5	16 43.7	0.299 8986	7125	9 16.0
29	1 38 29.88	2 49.55	9 9 50.2	16 37.4	0.299 1861	7163	9 14.9
30	1 41 19.43	2 49.62	9 26 27.6	16 31.0	0.298 4698	7202	9 13.8
31	1 44 9.05	2 49.69	9 42 58.6	16 24.5	0.297 7496	7240	9 12.6
Juni 1	1 46 58.74	2 49.77	9 59 23.1	16 17.7	0.297 0256	7279	9 11.5
2	1 49 48.51	2 49.86	+ 10 15 40.8	16 10.9	0.296 2977	7317	9 10.4
3	1 52 38.37	2 49.94	10 31 51.7	16 3.9	0.295 5660	7356	9 9.3
4	1 55 28.31	2 50.03	10 47 55.6	15 56.8	0.294 8304	7394	9 8.2
5	1 58 18.34	2 50.12	11 3 52.4	15 49.5	0.294 0910	7433	9 7.1
6	2 1 8.46	2 50.22	11 19 41.9	15 42.1	0.293 3477	7474	9 6.0
7	2 3 58.68	2 50.32	11 35 24.0	15 34.7	0.292 6003	7515	9 4.9
8	2 6 49.00	2 50.43	+ 11 50 58.7	15 27.0	0.291 8488	7556	9 3.8
9	2 9 39.43	2 50.54	12 6 25.7	15 19.3	0.291 0932	7599	9 2.7
10	2 12 29.97	2 50.65	12 21 45.0	15 11.4	0.290 3333	7645	9 1.6
11	2 15 20.62	2 50.77	12 36 56.4	15 3.4	0.289 5688	7690	9 0.5
12	2 18 11.39	2 50.89	12 51 59.8	14 55.3	0.288 7998	7737	8 59.4
13	2 21 2.28		+ 13 6 55.1		0.288 0261		8 58.3

Tag		0h Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1930		h m s	m s	° ′ ″	′ ″			h m
Juni	13	2 21 2.28	2 51.01	+13 6 55.1	14 47.0	0.288 0261	7786	8 58.3
	14	2 23 53.29	2 51.14	13 21 42.1	14 38.7	0.287 2475	7837	8 57.2
	15	2 26 44.43	2 51.27	13 36 20.8	14 30.1	0.286 4638	7889	8 56.1
	16	2 29 35.70	2 51.39	13 50 50.9	14 21.5	0.285 6749	7941	8 55.1
	17	2 32 27.09	2 51.51	14 5 12.4	14 12.7	0.284 8808	7996	8 54.0
	18	2 35 18.60	2 51.63	14 19 25.1	14 3.9	0.284 0812	8054	8 52.9
	19	2 38 10.23	2 51.76	+14 33 29.0	13 54.9	0.283 2758	8113	8 51.8
	20	2 41 1.99	2 51.88	14 47 23.9	13 45.7	0.282 4645	8174	8 50.7
	21	2 43 53.87	2 52.00	15 1 9.6	13 36.5	0.281 6471	8235	8 49.6
	22	2 46 45.87	2 52.12	15 14 46.1	13 27.0	0.280 8236	8298	8 48.6
	23	2 49 37.99	2 52.23	15 28 13.1	13 17.5	0.279 9938	8363	8 47.5
	24	2 52 30.22	2 52.33	15 41 30.6	13 7.9	0.279 1575	8429	8 46.4
	25	2 55 22.55	2 52.45	+15 54 38.5	12 58.1	0.278 3146	8494	8 45.3
	26	2 58 15.00	2 52.55	16 7 36.6	12 48.3	0.277 4652	8561	8 44.3
	27	3 1 7.55	2 52.64	16 20 24.9	12 38.3	0.276 6091	8630	8 43.2
	28	3 4 0.19	2 52.73	16 33 3.2	12 28.2	0.275 7461	8698	8 42.1
	29	3 6 52.92	2 52.82	16 45 31.4	12 17.9	0.274 8763	8767	8 41.1
	30	3 9 45.74	2 52.91	16 57 49.3	12 7.6	0.273 9996	8836	8 40.0
Juli	1	3 12 38.65	2 52.98	+17 9 56.9	11 57.3	0.273 1160	8906	8 38.9
	2	3 15 31.63	2 53.06	17 21 54.2	11 46.9	0.272 2254	8975	8 37.9
	3	3 18 24.69	2 53.13	17 33 41.1	11 36.3	0.271 3279	9044	8 36.9
	4	3 21 17.82	2 53.21	17 45 17.4	11 25.7	0.270 4235	9116	8 35.8
	5	3 24 11.03	2 53.29	17 56 43.1	11 15.0	0.269 5119	9189	8 34.8
	6	3 27 4.32	2 53.36	18 7 58.1	11 4.2	0.268 5930	9263	8 33.7
	7	3 29 57.68	2 53.43	+18 19 2.3	10 53.5	0.267 6667	9337	8 32.6
	8	3 32 51.11	2 53.49	18 29 55.8	10 42.6	0.266 7330	9414	8 31.6
	9	3 35 44.60	2 53.55	18 40 38.4	10 31.6	0.265 7916	9492	8 30.5
	10	3 38 38.15	2 53.60	18 51 10.0	10 20.6	0.264 8424	9571	8 29.5
	11	3 41 31.75	2 53.65	19 1 30.6	10 9.6	0.263 8853	9651	8 28.4
	12	3 44 25.40	2 53.71	19 11 40.2	9 58.4	0.262 9202	9733	8 27.4
	13	3 47 19.11	2 53.75	+19 21 38.6	9 47.2	0.261 9469	9818	8 26.3
	14	3 50 12.86	2 53.78	19 31 25.8	9 36.0	0.260 9651	9906	8 25.3
	15	3 53 6.64	2 53.82	19 41 1.8	9 24.7	0.259 9745	9995	8 24.3
	16	3 56 0.46	2 53.84	19 50 26.5	9 13.4	0.258 9750	1 0086	8 23.2
	17	3 58 54.30	2 53.85	19 59 39.9	9 2.0	0.257 9664	1 0179	8 22.2
	18	4 1 48.15	2 53.86	20 8 41.9	8 50.4	0.256 9485	1 0273	8 21.1
	19	4 4 42.01	2 53.85	+20 17 32.3	8 38.9	0.255 9212	1 0370	8 20.1
	20	4 7 35.86	2 53.83	20 26 11.2	8 27.3	0.254 8842	1 0468	8 19.0
	21	4 10 29.69	2 53.81	20 34 38.5	8 15.6	0.253 8374	1 0569	8 18.0
	22	4 13 23.50	2 53.78	20 42 54.1	8 4.0	0.252 7805	1 0671	8 16.9
	23	4 16 17.28	2 53.74	20 50 58.1	7 52.3	0.251 7134	1 0774	8 15.9
	24	4 19 11.02		+20 58 50.4		0.250 6360		8 14.9

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Juli 24	4 19 11.02	2 53.68	+20 58 50.4	7 40.6	0.250 6360	1 0879	8 14.9
25	4 22 4.70	2 53.60	21 6 31.0	7 28.8	0.249 5481	1 0984	8 13.8
26	4 24 58.30	2 53.52	21 13 59.8	7 17.0	0.248 4497	1 1090	8 12.8
27	4 27 51.82	2 53.43	21 21 16.8	7 5.1	0.247 3407	1 1197	8 11.7
28	4 30 45.25	2 53.32	21 28 21.9	6 53.3	0.246 2210	1 1304	8 10.6
29	4 33 38.57	2 53.21	21 35 15.2	6 41.5	0.245 0906	1 1412	8 9.6
30	4 36 31.78	2 53.08	+21 41 56.7	6 29.7	0.243 9494	1 1521	8 8.5
31	4 39 24.86	2 52.95	21 48 26.4	6 17.8	0.242 7973	1 1629	8 7.5
Aug. 1	4 42 17.81	2 52.81	21 54 44.2	6 6.0	0.241 6344	1 1738	8 6.4
2	4 45 10.62	2 52.66	22 0 50.2	5 54.3	0.240 4606	1 1850	8 5.4
3	4 48 3.28	2 52.50	22 6 44.5	5 42.5	0.239 2756	1 1963	8 4.3
4	4 50 55.78	2 52.34	22 12 27.0	5 30.7	0.238 0793	1 2076	8 3.2
5	4 53 48.12	2 52.16	+22 17 57.7	5 18.9	0.236 8717	1 2191	8 2.1
6	4 56 40.28	2 51.98	22 23 16.6	5 7.2	0.235 6526	1 2308	8 1.1
7	4 59 32.26	2 51.79	22 28 23.8	4 55.5	0.234 4218	1 2427	8 0.0
8	5 2 24.05	2 51.59	22 33 19.3	4 43.8	0.233 1791	1 2547	7 58.9
9	5 5 15.64	2 51.38	22 38 3.1	4 32.1	0.231 9244	1 2671	7 57.8
10	5 8 7.02	2 51.15	22 42 35.2	4 20.6	0.230 6573	1 2796	7 56.7
11	5 10 58.17	2 50.91	+22 46 55.8	4 9.0	0.229 3777	1 2924	7 55.6
12	5 13 49.08	2 50.67	22 51 4.8	3 57.4	0.228 0853	1 3053	7 54.5
13	5 16 39.75	2 50.42	22 55 2.2	3 45.9	0.226 7800	1 3184	7 53.5
14	5 19 30.17	2 50.15	22 58 48.1	3 34.5	0.225 4616	1 3319	7 52.4
15	5 22 20.32	2 49.86	23 2 22.6	3 23.1	0.224 1297	1 3456	7 51.3
16	5 25 10.18	2 49.57	23 5 45.7	3 11.6	0.222 7841	1 3593	7 50.2
17	5 27 59.75	2 49.26	+23 8 57.3	3 0.3	0.221 4248	1 3734	7 49.1
18	5 30 49.01	2 48.94	23 11 57.6	2 49.1	0.220 0514	1 3878	7 47.9
19	5 33 37.95	2 48.60	23 14 46.7	2 37.9	0.218 6636	1 4023	7 46.8
20	5 36 26.55	2 48.24	23 17 24.6	2 26.7	0.217 2613	1 4169	7 45.7
21	5 39 14.79	2 47.87	23 19 51.3	2 15.6	0.215 8444	1 4318	7 44.5
22	5 42 2.66	2 47.48	23 22 6.9	2 4.6	0.214 4126	1 4468	7 43.4
23	5 44 50.14	2 47.08	+23 24 11.5	1 53.7	0.212 9658	1 4618	7 42.2
24	5 47 37.22	2 46.67	23 26 5.2	1 42.9	0.211 5040	1 4771	7 41.0
25	5 50 23.89	2 46.23	23 27 48.1	1 32.1	0.210 0269	1 4924	7 39.9
26	5 53 10.12	2 45.78	23 29 20.2	1 21.4	0.208 5345	1 5077	7 38.7
27	5 55 55.90	2 45.33	23 30 41.6	1 10.8	0.207 0268	1 5231	7 37.5
28	5 58 41.23	2 44.86	23 31 52.4	1 0.4	0.205 5037	1 5385	7 36.3
29	6 1 26.09	2 44.38	+23 32 52.8	0 50.1	0.203 9652	1 5540	7 35.1
30	6 4 10.47	2 43.88	23 33 42.9	0 39.8	0.202 4112	1 5696	7 33.9
31	6 6 54.35	2 43.38	23 34 22.7	0 29.6	0.200 8416	1 5855	7 32.7
Sept. 1	6 9 37.73	2 42.87	23 34 52.3	0 19.6	0.199 2561	1 6014	7 31.5
2	6 12 20.60	2 42.35	23 35 11.9	0 9.7	0.197 6547	1 6175	7 30.2
3	6 15 2.95		+23 35 21.6		0.196 0372		7 29.0

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1930	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	6 15 2.95	2 41.82	+23 35 21.6	0 0.1	0.196 0372	1 6339	7 29.0
4	6 17 44.77	2 41.28	23 35 21.5	0 9.7	0.194 4033	1 6504	7 27.8
5	6 20 26.05	2 40.73	23 35 11.8	0 19.3	0.192 7529	1 6670	7 26.5
6	6 23 6.78	2 40.17	23 34 52.5	0 28.8	0.191 0859	1 6840	7 25.3
7	6 25 46.95	2 39.59	23 34 23.7	0 38.0	0.189 4019	1 7013	7 24.0
8	6 28 26.54	2 39.01	23 33 45.7	0 47.2	0.187 7006	1 7186	7 22.7
9	6 31 5.55	2 38.41	+23 32 58.5	0 56.4	0.185 9820	1 7362	7 21.4
10	6 33 43.96	2 37.81	23 32 2.1	1 5.3	0.184 2458	1 7541	7 20.1
11	6 36 21.77	2 37.18	23 30 56.8	1 14.0	0.182 4917	1 7723	7 18.8
12	6 38 58.95	2 36.55	23 29 42.8	1 22.7	0.180 7194	1 7908	7 17.5
13	6 41 35.50	2 35.90	23 28 20.1	1 31.3	0.178 9286	1 8095	7 16.1
14	6 44 11.40	2 35.23	23 26 48.8	1 39.6	0.177 1191	1 8285	7 14.8
15	6 46 46.63	2 34.55	+23 25 9.2	1 47.8	0.175 2906	1 8477	7 13.4
16	6 49 21.18	2 33.86	23 23 21.4	1 56.0	0.173 4429	1 8672	7 12.1
17	6 51 55.04	2 33.15	23 21 25.4	2 3.9	0.171 5757	1 8868	7 10.7
18	6 54 28.19	2 32.43	23 19 21.5	2 11.6	0.169 6889	1 9066	7 9.3
19	6 57 0.62	2 31.69	23 17 9.9	2 19.2	0.167 7823	1 9267	7 7.9
20	6 59 32.31	2 30.93	23 14 50.7	2 26.6	0.165 8556	1 9469	7 6.5
21	7 2 3.24	2 30.15	+23 12 24.1	2 33.9	0.163 9087	1 9671	7 5.0
22	7 4 33.39	2 29.36	23 9 50.2	2 40.9	0.161 9416	1 9874	7 3.6
23	7 7 2.75	2 28.55	23 7 9.3	2 47.8	0.159 9542	2 0078	7 2.1
24	7 9 31.30	2 27.74	23 4 21.5	2 54.5	0.157 9464	2 0283	7 0.7
25	7 11 59.04	2 26.91	23 1 27.0	3 1.0	0.155 9181	2 0487	6 59.2
26	7 14 25.95	2 26.07	22 58 26.0	3 7.2	0.153 8694	2 0693	6 57.7
27	7 16 52.02	2 25.21	+22 55 18.8	3 13.4	0.151 8001	2 0901	6 56.2
28	7 19 17.23	2 24.36	22 52 5.4	3 19.4	0.149 7100	2 1109	6 54.6
29	7 21 41.59	2 23.49	22 48 46.0	3 25.2	0.147 5991	2 1319	6 53.1
30	7 24 5.08	2 22.60	22 45 20.8	3 30.7	0.145 4672	2 1530	6 51.6
Okt. 1	7 26 27.68	2 21.71	22 41 50.1	3 36.1	0.143 3142	2 1743	6 50.0
2	7 28 49.39	2 20.81	22 38 14.0	3 41.4	0.141 1399	2 1958	6 48.4
3	7 31 10.20	2 19.90	+22 34 32.6	3 46.4	0.138 9441	2 2174	6 46.8
4	7 33 30.10	2 18.97	22 30 46.2	3 51.1	0.136 7267	2 2393	6 45.2
5	7 35 49.07	2 18.04	22 26 55.1	3 55.7	0.134 4874	2 2614	6 43.5
6	7 38 7.11	2 17.10	22 22 59.4	4 0.2	0.132 2260	2 2838	6 41.9
7	7 40 24.21	2 16.14	22 18 59.2	4 4.4	0.129 9422	2 3063	6 40.3
8	7 42 40.35	2 15.16	22 14 54.8	4 8.4	0.127 6359	2 3292	6 38.6
9	7 44 55.51	2 14.17	+22 10 46.4	4 12.3	0.125 3067	2 3522	6 36.9
10	7 47 9.68	2 13.18	22 6 34.1	4 15.8	0.122 9545	2 3756	6 35.2
11	7 49 22.86	2 12.16	22 2 18.3	4 19.2	0.120 5789	2 3991	6 33.4
12	7 51 35.02	2 11.13	21 57 59.1	4 22.4	0.118 1798	2 4230	6 31.7
13	7 53 46.15	2 10.07	21 53 36.7	4 25.3	0.115 7568	2 4471	6 30.0
14	7 55 56.22		+21 49 11.4		0.113 3097		6 28.2

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	7 55 56.22	2 9.01	+21 49 11.4	4 28.0	0.113 3097	2 4714	6 28.2
15	7 58 5.23	2 7.92	21 44 43.4	4 30.5	0.110 8383	2 4958	6 26.4
16	8 0 13.15	2 6.81	21 40 12.9	4 32.7	0.108 3425	2 5205	6 24.6
17	8 2 19.96	2 5.69	21 35 40.2	4 34.7	0.105 8220	2 5452	6 22.7
18	8 4 25.65	2 4.53	21 31 5.5	4 36.4	0.103 2768	2 5700	6 20.9
19	8 6 30.18	2 3.36	21 26 29.1	4 37.9	0.100 7068	2 5949	6 19.0
20	8 8 33.54	2 2.18	+21 21 51.2	4 39.2	0.098 1119	2 6198	6 17.1
21	8 10 35.72	2 0.97	21 17 12.0	4 40.1	0.095 4921	2 6446	6 15.2
22	8 12 36.69	1 59.74	21 12 31.9	4 40.8	0.092 8475	2 6695	6 13.3
23	8 14 36.43	1 58.50	21 7 51.1	4 41.1	0.090 1780	2 6942	6 11.4
24	8 16 34.93	1 57.23	21 3 10.0	4 41.4	0.087 4838	2 7190	6 9.4
25	8 18 32.16	1 55.96	20 58 28.6	4 41.4	0.084 7648	2 7436	6 7.4
26	8 20 28.12	1 54.67	+20 53 47.2	4 41.0	0.082 0212	2 7682	6 5.4
27	8 22 22.79	1 53.36	20 49 6.2	4 40.4	0.079 2530	2 7928	6 3.4
28	8 24 16.15	1 52.03	20 44 25.8	4 39.6	0.076 4602	2 8176	6 1.3
29	8 26 8.18	1 50.68	20 39 46.2	4 38.6	0.073 6426	2 8421	5 59.2
30	8 27 58.86	1 49.32	20 35 7.6	4 37.2	0.070 8005	2 8668	5 57.1
31	8 29 48.18	1 47.95	20 30 30.4	4 35.6	0.067 9337	2 8916	5 55.0
Nov. 1	8 31 36.13	1 46.55	+20 25 54.8	4 33.8	0.065 0421	2 9163	5 52.9
2	8 33 22.68	1 45.12	20 21 21.0	4 31.7	0.062 1258	2 9411	5 50.7
3	8 35 7.80	1 43.69	20 16 49.3	4 29.3	0.059 1847	2 9659	5 48.5
4	8 36 51.49	1 42.23	20 12 20.0	4 26.6	0.056 2188	2 9907	5 46.3
5	8 38 33.72	1 40.75	20 7 53.4	4 23.7	0.053 2281	3 0156	5 44.0
6	8 40 14.47	1 39.24	20 3 29.7	4 20.5	0.050 2125	3 0405	5 41.7
7	8 41 53.71	1 37.71	+19 59 9.2	4 17.0	0.047 1720	3 0653	5 39.4
8	8 43 31.42	1 36.15	19 54 52.2	4 13.3	0.044 1067	3 0901	5 37.1
9	8 45 7.57	1 34.56	19 50 38.9	4 9.2	0.041 0166	3 1150	5 34.8
10	8 46 42.13	1 32.94	19 46 29.7	4 4.9	0.037 9016	3 1398	5 32.4
11	8 48 15.07	1 31.29	19 42 24.8	4 0.2	0.034 7618	3 1646	5 30.0
12	8 49 46.36	1 29.61	19 38 24.6	3 55.2	0.031 5972	3 1891	5 27.6
13	8 51 15.97	1 27.89	+19 34 29.4	3 49.8	0.028 4081	3 2134	5 25.2
14	8 52 43.86	1 26.13	19 30 39.6	3 44.2	0.025 1947	3 2374	5 22.7
15	8 54 9.99	1 24.35	19 26 55.4	3 38.2	0.021 9573	3 2612	5 20.2
16	8 55 34.34	1 22.52	19 23 17.2	3 31.9	0.018 6961	3 2845	5 17.7
17	8 56 56.86	1 20.66	19 19 45.3	3 25.3	0.015 4116	3 3071	5 15.1
18	8 58 17.52	1 18.76	19 16 20.0	3 18.3	0.012 1045	3 3291	5 12.5
19	8 59 36.28	1 16.83	+19 13 1.7	3 10.9	0.008 7754	3 3507	5 9.8
20	9 0 53.11	1 14.86	19 9 50.8	3 3.2	0.005 4247	3 3717	5 7.2
21	9 2 7.97	1 12.86	19 6 47.6	2 55.3	0.002 0530	3 3918	5 4.5
22	9 3 20.83	1 10.81	19 3 52.3	2 47.1	9.998 6612	3 4112	5 1.7
23	9 4 31.64	1 8.74	19 1 5.2	2 38.5	9.995 2500	3 4299	4 59.0
24	9 5 40.38		+18 58 26.7		9.991 8201		4 56.2

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1930	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	9 5 40.38	1 6.64	+18 58 26.7	2 29.6	9.991 8201	3 4477	4 56.2
25	9 6 47.02	1 4.50	18 55 57.1	2 20.4	9.988 3724	3 4649	4 53.4
26	9 7 51.52	1 2.33	18 53 36.7	2 11.0	9.984 9075	3 4813	4 50.5
27	9 8 53.85	1 0.11	18 51 25.7	2 1.2	9.981 4262	3 4967	4 47.6
28	9 9 53.96	0 57.87	18 49 24.5	1 51.1	9.977 9295	3 5112	4 44.6
29	9 10 51.83	0 55.58	18 47 33.4	1 40.8	9.974 4183	3 5247	4 41.7
30	9 11 47.41	0 53.25	+18 45 52.6	1 30.1	9.970 8936	3 5374	4 38.6
Dez. 1	9 12 40.66	0 50.88	18 44 22.5	1 19.2	9.967 3562	3 5489	4 35.6
2	9 13 31.54	0 48.48	18 43 3.3	1 8.1	9.963 8073	3 5593	4 32.5
3	9 14 20.02	0 46.03	18 41 55.2	0 56.6	9.960 2480	3 5687	4 29.4
4	9 15 6.05	0 43.54	18 40 58.6	0 44.7	9.956 6793	3 5769	4 26.2
5	9 15 49.59	0 41.01	18 40 13.9	0 32.7	9.953 1024	3 5839	4 23.0
6	9 16 30.60	0 38.43	+18 39 41.2	0 20.5	9.949 5185	3 5896	4 19.7
7	9 17 9.03	0 35.79	18 39 20.7	0 7.9	9.945 9289	3 5939	4 16.4
8	9 17 44.82	0 33.12	18 39 12.8	0 5.1	9.942 3350	3 5964	4 13.1
9	9 18 17.94	0 30.39	18 39 17.9	0 18.2	9.938 7386	3 5974	4 9.7
10	9 18 48.33	0 27.61	18 39 36.1	0 31.6	9.935 1412	3 5967	4 6.2
11	9 19 15.94	0 24.77	18 40 7.7	0 45.2	9.931 5445	3 5940	4 2.7
12	9 19 40.71	0 21.89	+18 40 52.9	0 59.2	9.927 9505	3 5891	3 59.2
13	9 20 2.60	0 18.95	18 41 52.1	1 13.3	9.924 3614	3 5821	3 55.6
14	9 20 21.55	0 15.96	18 43 5.4	1 27.6	9.920 7793	3 5727	3 52.0
15	9 20 37.51	0 12.93	18 44 33.0	1 42.2	9.917 2066	3 5605	3 48.3
16	9 20 50.44	0 9.85	18 46 15.2	1 56.9	9.913 6461	3 5457	3 44.6
17	9 21 0.29	0 6.74	18 48 12.1	2 11.6	9.910 1004	3 5281	3 40.8
18	9 21 7.03	0 3.58	+18 50 23.7	2 26.6	9.906 5723	3 5074	3 37.0
19	9 21 10.61	0 0.39	18 52 50.3	2 41.6	9.903 0649	3 4837	3 33.1
20	9 21 11.00	0 2.84	18 55 31.9	2 56.5	9.899 5812	3 4569	3 29.2
21	9 21 8.16	0 6.10	18 58 28.4	3 11.5	9.896 1243	3 4267	3 25.2
22	9 21 2.06	0 9.38	19 1 39.9	3 26.4	9.892 6976	3 3931	3 21.2
23	9 20 52.68	0 12.68	19 5 6.3	3 41.2	9.889 3045	3 3563	3 17.1
24	9 20 40.00	0 16.01	+19 8 47.5	3 55.9	9.885 9482	3 3161	3 12.9
25	9 20 23.99	0 19.35	19 12 43.4	4 10.5	9.882 6321	3 2723	3 8.7
26	9 20 4.64	0 22.69	19 16 53.9	4 24.8	9.879 3598	3 2247	3 4.4
27	9 19 41.95	0 26.05	19 21 18.7	4 38.9	9.876 1351	3 1736	3 0.1
28	9 19 15.90	0 29.42	19 25 57.6	4 52.8	9.872 9615	3 1186	2 55.8
29	9 18 46.48	0 32.77	19 30 50.4	5 6.3	9.869 8429	3 0598	2 51.4
30	9 18 13.71	0 36.13	+19 35 56.7	5 19.4	9.866 7831	2 9971	2 46.9
31	9 17 37.58	0 39.49	19 41 16.1	5 32.3	9.863 7860	2 9305	2 42.3
32	9 16 58.09		+19 46 48.4		9.860 8555		2 37.7

Tag	Scheinbare Rektaszension (0h Welt-Zeit)		Scheinbare Deklination (0h Welt-Zeit)		log Δ (0h Welt-Zeit)		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	″			h m
Jan. 0	4 25 19.24	25.04	+20 57 52.0	43.9	0.622 8207	8956	21 45.6
1	4 24 54.20	24.38	20 57 8.1	42.6	0.623 7163	9207	21 41.3
2	4 24 29.82	23.69	20 56 25.5	41.2	0.624 6370	9451	21 37.0
3	4 24 6.13	22.99	20 55 44.3	39.7	0.625 5821	9690	21 32.6
4	4 23 43.14	22.29	20 55 4.6	38.0	0.626 5511	9923	21 28.3
5	4 23 20.85	21.57	20 54 26.6	36.4	0.627 5434	1 0150	21 24.1
6	4 22 59.28	20.82	+20 53 50.2	34.9	0.628 5584	1 0371	21 19.8
7	4 22 38.46	20.07	20 53 15.3	33.2	0.629 5955	1 0586	21 15.5
8	4 22 18.39	19.32	20 52 42.1	31.6	0.630 6541	1 0794	21 11.3
9	4 21 59.07	18.54	20 52 10.5	29.8	0.631 7335	1 0996	21 7.0
10	4 21 40.53	17.76	20 51 40.7	28.0	0.632 8331	1 1191	21 2.8
11	4 21 22.77	16.97	20 51 12.7	26.2	0.633 9522	1 1380	20 58.6
12	4 21 5.80	16.18	+20 50 46.5	24.4	0.635 0902	1 1564	20 54.4
13	4 20 49.62	15.37	20 50 22.1	22.5	0.636 2466	1 1741	20 50.2
14	4 20 34.25	14.56	20 49 59.6	20.7	0.637 4207	1 1912	20 46.0
15	4 20 19.69	13.75	20 49 38.9	18.7	0.638 6119	1 2077	20 41.8
16	4 20 5.94	12.92	20 49 20.2	16.8	0.639 8196	1 2236	20 37.7
17	4 19 53.02	12.09	20 49 3.4	15.0	0.641 0432	1 2390	20 33.6
18	4 19 40.93	11.25	+20 48 48.4	13.0	0.642 2822	1 2538	20 29.5
19	4 19 29.68	10.42	20 48 35.4	11.0	0.643 5360	1 2680	20 25.3
20	4 19 19.26	9.58	20 48 24.4	9.0	0.644 8040	1 2817	20 21.2
21	4 19 9.68	8.72	20 48 15.4	6.9	0.646 0857	1 2947	20 17.2
22	4 19 0.96	7.87	20 48 8.5	4.9	0.647 3804	1 3072	20 13.1
23	4 18 53.09	7.01	20 48 3.6	2.8	0.648 6876	1 3192	20 9.1
24	4 18 46.08	6.15	+20 48 0.8	0.7	0.650 0068	1 3305	20 5.0
25	4 18 39.93	5.28	20 48 0.1	1.3	0.651 3373	1 3413	20 1.0
26	4 18 34.65	4.42	20 48 1.4	3.4	0.652 6786	1 3515	19 57.0
27	4 18 30.23	3.55	20 48 4.8	5.5	0.654 0301	1 3609	19 53.0
28	4 18 26.68	2.68	20 48 10.3	7.6	0.655 3910	1 3698	19 49.0
29	4 18 24.00	1.81	20 48 17.9	9.7	0.656 7608	1 3782	19 45.1
30	4 18 22.19	0.93	+20 48 27.6	11.8	0.658 1390	1 3860	19 41.1
31	4 18 21.26	0.06	20 48 39.4	13.9	0.659 5250	1 3933	19 37.2
Febr. 1	4 18 21.20	0.80	20 48 53.3	16.0	0.660 9183	1 3998	19 33.3
2	4 18 22.00	1.66	20 49 9.3	18.0	0.662 3181	1 4058	19 29.4
3	4 18 23.66	2.54	20 49 27.3	20.1	0.663 7239	1 4113	19 25.5
4	4 18 26.20	3.40	20 49 47.4	22.2	0.665 1352	1 4163	19 21.6
5	4 18 29.60	4.25	+20 50 9.6	24.2	0.666 5515	1 4208	19 17.7
6	4 18 33.85	5.11	20 50 33.8	26.2	0.667 9723	1 4247	19 13.9
7	4 18 38.96	5.97	20 51 0.0	28.2	0.669 3970	1 4279	19 10.0
8	4 18 44.93	6.82	20 51 28.2	30.2	0.670 8249	1 4308	19 6.2
9	4 18 51.75	7.65	20 51 58.4	32.2	0.672 2557	1 4333	19 2.4
10	4 18 59.40		+20 52 30.6		0.673 6890		18 58.6

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	′ ″			h m
Febr. 10	4 18 59.40	8.48	+20 52 30.6	0 34.1	0.673 6890	1 4351	18 58.6
11	4 19 7.88	9.32	20 53 4.7	0 36.0	0.675 1241	1 4365	18 54.8
12	4 19 17.20	10.15	20 53 40.7	0 37.9	0.676 5606	1 4376	18 51.0
13	4 19 27.35	10.96	20 54 18.6	0 39.7	0.677 9982	1 4383	18 47.3
14	4 19 38.31	11.78	20 54 58.3	0 41.6	0.679 4365	1 4385	18 43.6
15	4 19 50.09	12.59	20 55 39.9	0 43.4	0.680 8750	1 4383	18 39.8
16	4 20 2.68	13.39	+20 56 23.3	0 45.2	0.682 3133	1 4379	18 36.1
17	4 20 16.07	14.19	20 57 8.5	0 46.9	0.683 7512	1 4370	18 32.4
18	4 20 30.26	14.99	20 57 55.4	0 48.6	0.685 1882	1 4356	18 28.7
19	4 20 45.25	15.79	20 58 44.0	0 50.4	0.686 6238	1 4340	18 25.1
20	4 21 1.04	16.56	20 59 34.4	0 52.1	0.688 0578	1 4319	18 21.4
21	4 21 17.60	17.33	21 0 26.5	0 53.7	0.689 4897	1 4294	18 17.8
22	4 21 34.93	18.11	+21 1 20.2	0 55.3	0.690 9191	1 4266	18 14.1
23	4 21 53.04	18.88	21 2 15.5	0 56.9	0.692 3457	1 4235	18 10.5
24	4 22 11.92	19.64	21 3 12.4	0 58.5	0.693 7692	1 4200	18 6.9
25	4 22 31.56	20.40	21 4 10.9	1 0.0	0.695 1892	1 4160	18 3.3
26	4 22 51.96	21.14	21 5 10.9	1 1.4	0.696 6052	1 4117	17 59.7
27	4 23 13.10	21.88	21 6 12.3	1 2.9	0.698 0169	1 4072	17 56.1
28	4 23 34.98	22.62	+21 7 15.2	1 4.4	0.699 4241	1 4022	17 52.6
März 1	4 23 57.60	23.35	21 8 19.6	1 5.8	0.700 8263	1 3969	17 49.0
2	4 24 20.95	24.07	21 9 25.4	1 7.1	0.702 2232	1 3912	17 45.5
3	4 24 45.02	24.78	21 10 32.5	1 8.5	0.703 6144	1 3853	17 42.0
4	4 25 9.80	25.49	21 11 41.0	1 9.7	0.704 9997	1 3790	17 38.5
5	4 25 35.29	26.18	21 12 50.7	1 10.9	0.706 3787	1 3724	17 35.0
6	4 26 1.47	26.87	+21 14 1.6	1 12.1	0.707 7511	1 3656	17 31.5
7	4 26 28.34	27.55	21 15 13.7	1 13.2	0.709 1167	1 3585	17 28.0
8	4 26 55.89	28.22	21 16 26.9	1 14.4	0.710 4752	1 3511	17 24.5
9	4 27 24.11	28.88	21 17 41.3	1 15.4	0.711 8263	1 3435	17 21.1
10	4 27 52.99	29.54	21 18 56.7	1 16.3	0.713 1698	1 3356	17 17.6
11	4 28 22.53	30.18	21 20 13.0	1 17.4	0.714 5054	1 3276	17 14.2
12	4 28 52.71	30.82	+21 21 30.4	1 18.3	0.715 8330	1 3193	17 10.8
13	4 29 23.53	31.44	21 22 48.7	1 19.1	0.717 1523	1 3109	17 7.3
14	4 29 54.97	32.06	21 24 7.8	1 20.0	0.718 4632	1 3023	17 3.9
15	4 30 27.03	32.68	21 25 27.8	1 20.8	0.719 7655	1 2934	17 0.6
16	4 30 59.71	33.28	21 26 48.6	1 21.6	0.721 0589	1 2845	16 57.2
17	4 31 32.99	33.88	21 28 10.2	1 22.4	0.722 3434	1 2754	16 53.8
18	4 32 6.87	34.47	+21 29 32.6	1 23.0	0.723 6188	1 2660	16 50.4
19	4 32 41.34	35.06	21 30 55.6	1 23.7	0.724 8848	1 2566	16 47.1
20	4 33 16.40	35.63	21 32 19.3	1 24.4	0.726 1414	1 2469	16 43.7
21	4 33 52.03	36.20	21 33 43.7	1 24.9	0.727 3883	1 2370	16 40.4
22	4 34 28.23	36.77	21 35 8.6	1 25.4	0.728 6253	1 2271	16 37.1
23	4 35 5.00		+21 36 34.0		0.729 8524		16 33.8

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	′ ″			h m
März 23	4 35 5.00	37.32	+21 36 34.0	1 25.9	0.729 8524	1 2169	16 33.8
24	4 35 42.32	37.87	21 37 59.9	1 26.4	0.731 0693	1 2065	16 30.5
25	4 36 20.19	38.41	21 39 26.3	1 26.9	0.732 2758	1 1960	16 27.2
26	4 36 58.60	38.95	21 40 53.2	1 27.3	0.733 4718	1 1852	16 23.9
27	4 37 37.55	39.48	21 42 20.5	1 27.6	0.734 6570	1 1743	16 20.6
28	4 38 17.03	40.00	21 43 48.1	1 27.9	0.735 8313	1 1634	16 17.3
29	4 38 57.03	40.51	+21 45 16.0	1 28.2	0.736 9947	1 1522	16 14.1
30	4 39 37.54	41.02	21 46 44.2	1 28.5	0.738 1469	1 1408	16 10.8
31	4 40 18.56	41.52	21 48 12.7	1 28.6	0.739 2877	1 1292	16 7.5
April 1	4 41 0.08	42.00	21 49 41.3	1 28.8	0.740 4169	1 1177	16 4.3
2	4 41 42.08	42.48	21 51 10.1	1 28.9	0.741 5346	1 1059	16 1.1
3	4 42 24.56	42.96	21 52 39.0	1 29.0	0.742 6405	1 0940	15 57.9
4	4 43 7.52	43.42	+21 54 8.0	1 29.0	0.743 7345	1 0820	15 54.6
5	4 43 50.94	43.88	21 55 37.0	1 28.9	0.744 8165	1 0699	15 51.4
6	4 44 34.82	44.33	21 57 5.9	1 28.9	0.745 8864	1 0577	15 48.2
7	4 45 19.15	44.76	21 58 34.8	1 28.9	0.746 9441	1 0455	15 45.0
8	4 46 3.91	45.19	22 0 3.7	1 28.8	0.747 9896	1 0331	15 41.9
9	4 46 49.10	45.62	22 1 32.5	1 28.6	0.749 0227	1 0207	15 38.7
10	4 47 34.72	46.04	+22 3 1.1	1 28.4	0.750 0434	1 0082	15 35.5
11	4 48 20.76	46.45	22 4 29.5	1 28.2	0.751 0516	9957	15 32.3
12	4 49 7.21	46.84	22 5 57.7	1 27.9	0.752 0473	9832	15 29.2
13	4 49 54.05	47.24	22 7 25.6	1 27.6	0.753 0305	9706	15 26.0
14	4 50 41.29	47.64	22 8 53.2	1 27.3	0.754 0011	9580	15 22.9
15	4 51 28.93	48.02	22 10 20.5	1 26.9	0.754 9591	9452	15 19.7
16	4 52 16.95	48.39	+22 11 47.4	1 26.6	0.755 9043	9325	15 16.6
17	4 53 5.34	48.76	22 13 14.0	1 26.2	0.756 8368	9196	15 13.5
18	4 53 54.10	49.13	22 14 40.2	1 25.7	0.757 7564	9067	15 10.4
19	4 54 43.23	49.49	22 16 5.9	1 25.3	0.758 6631	8938	15 7.3
20	4 55 32.72	49.85	22 17 31.2	1 24.8	0.759 5569	8807	15 4.2
21	4 56 22.57	50.19	22 18 56.0	1 24.2	0.760 4376	8676	15 1.1
22	4 57 12.76	50.54	+22 20 20.2	1 23.7	0.761 3052	8544	14 58.0
23	4 58 3.30	50.87	22 21 43.9	1 23.1	0.762 1596	8411	14 54.9
24	4 58 54.17	51.20	22 23 7.0	1 22.5	0.763 0007	8279	14 51.8
25	4 59 45.37	51.52	22 24 29.5	1 21.9	0.763 8286	8145	14 48.7
26	5 0 36.89	51.84	22 25 51.4	1 21.2	0.764 6431	8009	14 45.7
27	5 1 28.73	52.14	22 27 12.6	1 20.5	0.765 4440	7874	14 42.6
28	5 2 20.87	52.45	+22 28 33.1	1 19.7	0.766 2314	7738	14 39.5
29	5 3 13.32	52.75	22 29 52.8	1 19.0	0.767 0052	7602	14 36.5
30	5 4 6.07	53.03	22 31 11.8	1 18.2	0.767 7654	7465	14 33.4
Mai 1	5 4 59.10	53.30	22 32 30.0	1 17.3	0.768 5119	7328	14 30.3
2	5 5 52.40	53.58	22 33 47.3	1 16.6	0.769 2447	7190	14 27.3
3	5 6 45.98		+22 35 3.9		0.769 9637		14 24.3

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	′ ″			h m
Mai 3	5 6 45.98	53.85	+22 35 3.9	1 15.7	0.769 9637	7052	14 24.3
4	5 7 39.83	54.11	22 36 19.6	1 14.7	0.770 6689	6914	14 21.2
5	5 8 33.94	54.36	22 37 34.3	1 13.8	0.771 3603	6775	14 18.2
6	5 9 28.30	54.60	22 38 48.1	1 12.9	0.772 0378	6637	14 15.2
7	5 10 22.90	54.85	22 40 1.0	1 11.9	0.772 7015	6498	14 12.2
8	5 11 17.75	55.09	22 41 12.9	1 10.9	0.773 3513	6359	14 9.1
9	5 12 12.84	55.31	+22 42 23.8	1 9.9	0.773 9872	6221	14 6.1
10	5 13 8.15	55.52	22 43 33.7	1 8.9	0.774 6093	6084	14 3.1
11	5 14 3.67	55.74	22 44 42.6	1 7.9	0.775 2177	5945	14 0.1
12	5 14 59.41	55.95	22 45 50.5	1 6.8	0.775 8122	5807	13 57.1
13	5 15 55.36	56.16	22 46 57.3	1 5.7	0.776 3929	5669	13 54.1
14	5 16 51.52	56.36	22 48 3.0	1 4.6	0.776 9598	5531	13 51.1
15	5 17 47.88	56.56	+22 49 7.6	1 3.5	0.777 5129	5393	13 48.1
16	5 18 44.44	56.75	22 50 11.1	1 2.3	0.778 0522	5253	13 45.1
17	5 19 41.19	56.93	22 51 13.4	1 1.2	0.778 5775	5114	13 42.1
18	5 20 38.12	57.11	22 52 14.6	1 0.1	0.779 0889	4975	13 39.1
19	5 21 35.23	57.28	22 53 14.7	0 58.8	0.779 5864	4835	13 36.1
20	5 22 32.51	57.46	22 54 13.5	0 57.6	0.780 0699	4695	13 33.2
21	5 23 29.97	57.62	+22 55 11.1	0 56.4	0.780 5394	4555	13 30.2
22	5 24 27.59	57.78	22 56 7.5	0 55.3	0.780 9949	4415	13 27.2
23	5 25 25.37	57.94	22 57 2.8	0 54.0	0.781 4364	4275	13 24.2
24	5 26 23.31	58.08	22 57 56.8	0 52.7	0.781 8639	4133	13 21.3
25	5 27 21.39	58.22	22 58 49.5	0 51.5	0.782 2772	3991	13 18.3
26	5 28 19.61	58.36	22 59 41.0	0 50.1	0.782 6763	3850	13 15.3
27	5 29 17.97	58.49	+23 0 31.1	0 48.8	0.783 0613	3709	13 12.4
28	5 30 16.46	58.62	23 1 19.9	0 47.5	0.783 4322	3566	13 9.4
29	5 31 15.08	58.73	23 2 7.4	0 46.2	0.783 7888	3424	13 6.5
30	5 32 13.81	58.84	23 2 53.6	0 44.8	0.784 1312	3282	13 3.5
31	5 33 12.65	58.95	23 3 38.4	0 43.5	0.784 4594	3139	13 0.5
Juni 1	5 34 11.60	59.04	23 4 21.9	0 42.1	0.784 7733	2997	12 57.6
2	5 35 10.64	59.14	+23 5 4.0	0 40.7	0.785 0730	2855	12 54.6
3	5 36 9.78	59.22	23 5 44.7	0 39.3	0.785 3585	2713	12 51.7
4	5 37 9.00	59.29	23 6 24.0	0 37.9	0.785 6298	2571	12 48.7
5	5 38 8.29	59.37	23 7 1.9	0 36.6	0.785 8869	2430	12 45.8
6	5 39 7.66	59.45	23 7 38.5	0 35.1	0.786 1299	2290	12 42.8
7	5 40 7.11	59.51	23 8 13.6	0 33.7	0.786 3589	2149	12 39.9
8	5 41 6.62	59.57	+23 8 47.3	0 32.3	0.786 5738	2008	12 37.0
9	5 42 6.19	59.62	23 9 19.6	0 30.9	0.786 7746	1867	12 34.0
10	5 43 5.81	59.67	23 9 50.5	0 29.4	0.786 9613	1727	12 31.1
11	5 44 5.48	59.72	23 10 19.9	0 28.0	0.787 1340	1587	12 28.1
12	5 45 5.20	59.76	23 10 47.9	0 26.6	0.787 2927	1446	12 25.2
13	5 46 4.96		+23 11 14.5		0.787 4373		12 22.2

Tag	0h Welt-Zeit Scheinbare Rektaszension				Scheinbare Deklination				log Δ		Obere Kulmination in Greenwich	
1930	h	m	s	s	°	′	″	″			h	m
Juni 13	5	46	4.96	59.80	+23	11	14.5	25.2	0.787 4373	1306	12	22.2
14	5	47	4.76	59.84	23	11	39.7	23.7	0.787 5679	1166	12	19.3
15	5	48	4.60	59.86	23	12	3.4	22.3	0.787 6845	1026	12	16.4
16	5	49	4.46	59.88	23	12	25.7	20.8	0.787 7871	885	12	13.4
17	5	50	4.34	59.90	23	12	46.5	19.4	0.787 8756	745	12	10.5
18	5	51	4.24	59.91	23	13	5.9	17.9	0.787 9501	603	12	7.6
19	5	52	4.15	59.93	+23	13	23.8	16.5	0.788 0104	462	12	4.6
20	5	53	4.08	59.92	23	13	40.3	15.0	0.788 0566	321	12	1.7
21	5	54	4.00	59.91	23	13	55.3	13.6	0.788 0887	179	11	58.7
22	5	55	3.91	59.91	23	14	8.9	12.1	0.788 1066	38	11	55.8
23	5	56	3.82	59.91	23	14	21.0	10.6	0.788 1104	104	11	52.9
24	5	57	3.73	59.88	23	14	31.6	9.2	0.788 1000	246	11	49.9
25	5	58	3.61	59.85	+23	14	40.8	7.7	0.788 0754	388	11	47.0
26	5	59	3.46	59.82	23	14	48.5	6.3	0.788 0366	530	11	44.0
27	6	0	3.28	59.78	23	14	54.8	4.8	0.787 9836	672	11	41.1
28	6	1	3.06	59.74	23	14	59.6	3.4	0.787 9164	813	11	38.1
29	6	2	2.80	59.69	23	15	3.0	1.9	0.787 8351	955	11	35.2
30	6	3	2.49	59.63	23	15	4.9	0.5	0.787 7396	1097	11	32.2
Juli 1	6	4	2.12	59.56	+23	15	5.4	0.9	0.787 6299	1237	11	29.3
2	6	5	1.68	59.50	23	15	4.5	2.4	0.787 5062	1378	11	26.4
3	6	6	1.18	59.43	23	15	2.1	3.8	0.787 3684	1519	11	23.4
4	6	7	0.61	59.36	23	14	58.3	5.2	0.787 2165	1659	11	20.5
5	6	7	59.97	59.27	23	14	53.1	6.6	0.787 0506	1798	11	17.6
6	6	8	59.24	59.18	23	14	46.5	8.0	0.786 8708	1936	11	14.6
7	6	9	58.42	59.08	+23	14	38.5	9.3	0.786 6772	2075	11	11.7
8	6	10	57.50	58.99	23	14	29.2	10.7	0.786 4697	2215	11	8.7
9	6	11	56.49	58.89	23	14	18.5	12.1	0.786 2482	2354	11	5.7
10	6	12	55.38	58.79	23	14	6.4	13.5	0.786 0128	2493	11	2.7
11	6	13	54.17	58.67	23	13	52.9	14.8	0.785 7635	2631	10	59.8
12	6	14	52.84	58.56	23	13	38.1	16.1	0.785 5004	2769	10	56.8
13	6	15	51.40	58.44	+23	13	22.0	17.5	0.785 2235	2907	10	53.9
14	6	16	49.84	58.31	23	13	4.5	18.8	0.784 9328	3046	10	50.9
15	6	17	48.15	58.18	23	12	45.7	20.1	0.784 6282	3184	10	48.0
16	6	18	46.33	58.05	23	12	25.6	21.4	0.784 3098	3324	10	45.0
17	6	19	44.38	57.91	23	12	4.2	22.6	0.783 9774	3463	10	42.1
18	6	20	42.29	57.76	23	11	41.6	23.9	0.783 6311	3601	10	39.1
19	6	21	40.05	57.61	+23	11	17.7	25.2	0.783 2710	3740	10	36.1
20	6	22	37.66	57.45	23	10	52.5	26.4	0.782 8970	3879	10	33.1
21	6	23	35.11	57.29	23	10	26.1	27.7	0.782 5091	4017	10	30.1
22	6	24	32.40	57.13	23	9	58.4	28.9	0.782 1074	4155	10	27.1
23	6	25	29.53	56.95	23	9	29.5	30.0	0.781 6919	4295	10	24.1
24	6	26	26.48		+23	8	59.5		0.781 2624		10	21.1

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	″			h m
Juli 24	6 26 26.48	56.76	+23 8 59.5	31.2	0.781 2624	4434	10 21.1
25	6 27 23.24	56.57	23 8 28.3	32.4	0.780 8190	4574	10 18.2
26	6 28 19.81	56.38	23 7 55.9	33.6	0.780 3616	4711	10 15.2
27	6 29 16.19	56.18	23 7 22.3	34.7	0.779 8905	4848	10 12.2
28	6 30 12.37	55.97	23 6 47.6	35.8	0.779 4057	4985	10 9.2
29	6 31 8.34	55.75	23 6 11.8	36.9	0.778 9072	5122	10 6.2
30	6 32 4.09	55.54	+23 5 34.9	38.0	0.778 3950	5259	10 3.2
31	6 32 59.63	55.31	23 4 56.9	39.0	0.777 8691	5395	10 0.2
Aug. 1	6 33 54.94	55.08	23 4 17.9	40.1	0.777 3296	5530	9 57.2
2	6 34 50.02	54.84	23 3 37.8	41.0	0.776 7766	5664	9 54.1
3	6 35 44.86	54.59	23 2 56.8	42.1	0.776 2102	5799	9 51.1
4	6 36 39.45	54.35	23 2 14.7	43.0	0.775 6303	5932	9 48.1
5	6 37 33.80	54.10	+23 1 31.7	43.9	0.775 0371	6065	9 45.0
6	6 38 27.90	53.85	23 0 47.8	44.8	0.774 4306	6199	9 42.0
7	6 39 21.75	53.58	23 0 3.0	45.7	0.773 8107	6332	9 38.9
8	6 40 15.33	53.31	22 59 17.3	46.6	0.773 1775	6464	9 35.9
9	6 41 8.64	53.04	22 58 30.7	47.5	0.772 5311	6596	9 32.9
10	6 42 1.68	52.76	22 57 43.2	48.3	0.771 8715	6728	9 29.8
11	6 42 54.44	52.47	+22 56 54.9	49.1	0.771 1987	6860	9 26.7
12	6 43 46.91	52.18	22 56 5.8	49.9	0.770 5127	6992	9 23.7
13	6 44 39.09	51.89	22 55 15.9	50.6	0.769 8135	7123	9 20.6
14	6 45 30.98	51.58	22 54 25.3	51.4	0.769 1012	7253	9 17.6
15	6 46 22.56	51.28	22 53 33.9	52.0	0.768 3759	7383	9 14.5
16	6 47 13.84	50.97	22 52 41.9	52.7	0.767 6376	7515	9 11.4
17	6 48 4.81	50.64	+22 51 49.2	53.4	0.766 8861	7645	9 8.3
18	6 48 55.45	50.32	22 50 55.8	54.0	0.766 1216	7775	9 5.2
19	6 49 45.77	49.99	22 50 1.8	54.6	0.765 3441	7905	9 2.1
20	6 50 35.76	49.64	22 49 7.2	55.1	0.764 5536	8034	8 59.0
21	6 51 25.40	49.29	22 48 12.1	55.7	0.763 7502	8163	8 55.9
22	6 52 14.69	48.93	22 47 16.4	56.2	0.762 9339	8291	8 52.8
23	6 53 3.62	48.57	+22 46 20.2	56.7	0.762 1048	8418	8 49.7
24	6 53 52.19	48.19	22 45 23.5	57.2	0.761 2630	8544	8 46.5
25	6 54 40.38	47.81	22 44 26.3	57.5	0.760 4086	8669	8 43.4
26	6 55 28.19	47.42	22 43 28.8	57.9	0.759 5417	8794	8 40.2
27	6 56 15.61	47.04	22 42 30.9	58.3	0.758 6623	8918	8 37.1
28	6 57 2.65	46.64	22 41 32.6	58.6	0.757 7705	9041	8 33.9
29	6 57 49.29	46.23	+22 40 34.0	58.9	0.756 8664	9162	8 30.8
30	6 58 35.52	45.81	22 39 35.1	59.1	0.755 9502	9283	8 27.6
31	6 59 21.33	45.39	22 38 36.0	59.3	0.755 0219	9402	8 24.5
Sept. 1	7 0 6.72	44.97	22 37 36.7	59.5	0.754 0817	9520	8 21.3
2	7 0 51.69	44.55	22 36 37.2	59.6	0.753 1297	9637	8 18.1
3	7 1 36.24		+22 35 37.6		0.752 1660		8 14.9

Tag	0h Welt-Zeit Scheinbare Rektaszension h m s		0h Welt-Zeit Scheinbare Deklination ° ′ ″		log Δ		Obere Kulmination in Greenwich h m
1930							
Sept. 3	7 1 36.24	44.11	+22 35 37.6	59.8	0.752 1660	9754	8 14.9
4	7 2 20.35	43.66	22 34 37.8	59.8	0.751 1906	9870	8 11.6
5	7 3 4.01	43.21	22 33 38.0	59.9	0.750 2036	9984	8 8.4
6	7 3 47.22	42.76	22 32 38.1	59.9	0.749 2052	1 0098	8 5.2
7	7 4 29.98	42.30	22 31 38.2	59.9	0.748 1954	1 0212	8 2.0
8	7 5 12.28	41.82	22 30 38.3	59.9	0.747 1742	1 0324	7 58.8
9	7 5 54.10	41.34	+22 29 38.4	59.8	0.746 1418	1 0435	7 55.6
10	7 6 35.44	40.87	22 28 38.6	59.6	0.745 0983	1 0544	7 52.3
11	7 7 16.31	40.39	22 27 39.0	59.5	0.744 0439	1 0653	7 49.1
12	7 7 56.70	39.88	22 26 39.5	59.3	0.742 9786	1 0761	7 45.8
13	7 8 36.58	39.37	22 25 40.2	59.1	0.741 9025	1 0869	7 42.5
14	7 9 15.95	38.87	22 24 41.1	58.8	0.740 8156	1 0975	7 39.2
15	7 9 54.82	38.35	+22 23 42.3	58.5	0.739 7181	1 1080	7 35.9
16	7 10 33.17	37.81	22 22 43.8	58.2	0.738 6101	1 1183	7 32.6
17	7 11 10.98	37.28	22 21 45.6	57.8	0.737 4918	1 1285	7 29.3
18	7 11 48.26	36.73	22 20 47.8	57.4	0.736 3633	1 1386	7 26.0
19	7 12 24.99	36.18	22 19 50.4	56.9	0.735 2247	1 1486	7 22.7
20	7 13 1.17	35.62	22 18 53.5	56.4	0.734 0761	1 1583	7 19.4
21	7 13 36.79	35.04	+22 17 57.1	55.9	0.732 9178	1 1679	7 16.0
22	7 14 11.83	34.47	22 17 1.2	55.3	0.731 7499	1 1771	7 12.7
23	7 14 46.30	33.88	22 16 5.9	54.7	0.730 5728	1 1864	7 9.3
24	7 15 20.18	33.29	22 15 11.2	54.0	0.729 3864	1 1953	7 5.9
25	7 15 53.47	32.69	22 14 17.2	53.4	0.728 1911	1 2040	7 2.5
26	7 16 26.16	32.08	22 13 23.8	52.6	0.726 9871	1 2125	6 59.1
27	7 16 58.24	31.46	+22 12 31.2	51.9	0.725 7746	1 2207	6 55.7
28	7 17 29.70	30.84	22 11 39.3	51.1	0.724 5539	1 2287	6 52.3
29	7 18 0.54	30.21	22 10 48.2	50.2	0.723 3252	1 2366	6 48.9
30	7 18 30.75	29.58	22 9 58.0	49.4	0.722 0886	1 2442	6 45.5
Okt. 1	7 19 0.33	28.94	22 9 8.6	48.4	0.720 8444	1 2516	6 42.0
2	7 19 29.27	28.28	22 8 20.2	47.4	0.719 5928	1 2587	6 38.6
3	7 19 57.55	27.63	+22 7 32.8	46.5	0.718 3341	1 2656	6 35.1
4	7 20 25.18	26.97	22 6 46.3	45.5	0.717 0685	1 2722	6 31.6
5	7 20 52.15	26.30	22 6 0.8	44.4	0.715 7963	1 2787	6 28.1
6	7 21 18.45	25.63	22 5 16.4	43.3	0.714 5176	1 2850	6 24.6
7	7 21 44.08	24.94	22 4 33.1	42.3	0.713 2326	1 2910	6 21.1
8	7 22 9.02	24.25	22 3 50.8	41.1	0.711 9416	1 2967	6 17.6
9	7 22 33.27	23.56	+22 3 9.7	39.9	0.710 6449	1 3022	6 14.1
10	7 22 56.83	22.85	22 2 29.8	38.7	0.709 3427	1 3074	6 10.5
11	7 23 19.68	22.14	22 1 51.1	37.5	0.708 0353	1 3123	6 7.0
12	7 23 41.82	21.42	22 1 13.6	36.1	0.706 7230	1 3170	6 3.4
13	7 24 3.24	20.70	22 0 37.5	34.8	0.705 4060	1 3214	5 59.8
14	7 24 23.94		+22 0 2.7		0.704 0846		5 56.2

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	″			h m
Okt. 14	7 24 23.94	19.96	+22 0 2.7	33.5	0.704 0846	1 3255	5 56.2
15	7 24 43.90	19.22	21 59 29.2	32.1	0.702 7591	1 3293	5 52.6
16	7 25 3.12	18.46	21 58 57.1	30.6	0.701 4298	1 3327	5 49.0
17	7 25 21.58	17.71	21 58 26.5	29.2	0.700 0971	1 3358	5 45.4
18	7 25 39.29	16.95	21 57 57.3	27.8	0.698 7613	1 3386	5 41.7
19	7 25 56.24	16.18	21 57 29.5	26.2	0.697 4227	1 3409	5 38.1
20	7 26 12.42	15.39	+21 57 3.3	24.7	0.696 0818	1 3428	5 34.4
21	7 26 27.81	14.60	21 56 38.6	23.1	0.694 7390	1 3444	5 30.7
22	7 26 42.41	13.81	21 56 15.5	21.5	0.693 3946	1 3455	5 27.0
23	7 26 56.22	13.02	21 55 54.0	19.9	0.692 0491	1 3462	5 23.3
24	7 27 9.24	12.22	21 55 34.1	18.2	0.690 7029	1 3465	5 19.6
25	7 27 21.46	11.41	21 55 15.9	16.5	0.689 3564	1 3463	5 15.9
26	7 27 32.87	10.60	+21 54 59.4	14.9	0.688 0101	1 3458	5 12.2
27	7 27 43.47	9.79	21 54 44.5	13.2	0.686 6643	1 3447	5 8.4
28	7 27 53.26	8.97	21 54 31.3	11.4	0.685 3196	1 3432	5 4.6
29	7 28 2.23	8.15	21 54 19.9	9.6	0.683 9764	1 3412	5 0.8
30	7 28 10.38	7.32	21 54 10.3	7.9	0.682 6352	1 3389	4 57.0
31	7 28 17.70	6.49	21 54 2.4	6.2	0.681 2963	1 3361	4 53.2
Nov. 1	7 28 24.19	5.67	+21 53 56.2	4.3	0.679 9602	1 3329	4 49.4
2	7 28 29.86	4.83	21 53 51.9	2.5	0.678 6273	1 3292	4 45.6
3	7 28 34.69	3.99	21 53 49.4	0.7	0.677 2981	1 3251	4 41.7
4	7 28 38.68	3.15	21 53 48.7	1.1	0.675 9730	1 3204	4 37.8
5	7 28 41.83	2.31	21 53 49.8	2.9	0.674 6526	1 3153	4 34.0
6	7 28 44.14	1.46	21 53 52.7	4.7	0.673 3373	1 3099	4 30.1
7	7 28 45.60	0.62	+21 53 57.4	6.6	0.672 0274	1 3039	4 26.2
8	7 28 46.22	0.22	21 54 4.0	8.4	0.670 7235	1 2972	4 22.2
9	7 28 46.00	1.07	21 54 12.4	10.3	0.669 4263	1 2902	4 18.3
10	7 28 44.93	1.93	21 54 22.7	12.1	0.668 1361	1 2827	4 14.3
11	7 28 43.00	2.78	21 54 34.8	13.9	0.666 8534	1 2747	4 10.4
12	7 28 40.22	3.64	21 54 48.7	15.8	0.665 5787	1 2661	4 6.4
13	7 28 36.58	4.49	+21 55 4.5	17.7	0.664 3126	1 2569	4 2.4
14	7 28 32.09	5.35	21 55 22.2	19.5	0.663 0557	1 2471	3 58.4
15	7 28 26.74	6.21	21 55 41.7	21.2	0.661 8086	1 2369	3 54.4
16	7 28 20.53	7.07	21 56 2.9	23.1	0.660 5717	1 2260	3 50.3
17	7 28 13.46	7.92	21 56 26.0	24.9	0.659 3457	1 2144	3 46.3
18	7 28 5.54	8.77	21 56 50.9	26.7	0.658 1313	1 2022	3 42.2
19	7 27 56.77	9.61	+21 57 17.6	28.5	0.656 9291	1 1895	3 38.1
20	7 27 47.16	10.46	21 57 46.1	30.2	0.655 7396	1 1761	3 34.0
21	7 27 36.70	11.29	21 58 16.3	32.0	0.654 5635	1 1621	3 29.9
22	7 27 25.41	12.13	21 58 48.3	33.8	0.653 4014	1 1475	3 25.8
23	7 27 13.28	12.95	21 59 22.1	35.4	0.652 2539	1 1323	3 21.7
24	7 27 0.33		+21 59 57.5		0.651 1216		3 17.5

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1930	h m s	s	° ′ ″	′ ″			h m
Nov. 24	7 27 0.33	13.77	+21 59 57.5	0 37.1	0.651 1216	1 1164	3 17.5
25	7 26 46.56	14.58	22 0 34.6	0 38.7	0.650 0052	1 1000	3 13.4
26	7 26 31.98	15.39	22 1 13.3	0 40.4	0.648 9052	1 0830	3 9.2
27	7 26 16.59	16.18	22 1 53.7	0 42.0	0.647 8222	1 0654	3 5.0
28	7 26 0.41	16.97	22 2 35.7	0 43.4	0.646 7568	1 0473	3 0.8
29	7 25 43.44	17.74	22 3 19.1	0 44.9	0.645 7095	1 0285	2 56.6
30	7 25 25.70	18.50	+22 4 4.0	0 46.4	0.644 6810	1 0092	2 52.4
Dez. 1	7 25 7.20	19.26	22 4 50.4	0 47.8	0.643 6718	9894	2 48.1
2	7 24 47.94	20.01	22 5 38.2	0 49.2	0.642 6824	9691	2 43.9
3	7 24 27.93	20.74	22 6 27.4	0 50.6	0.641 7133	9480	2 39.6
4	7 24 7.19	21.46	22 7 18.0	0 51.8	0.640 7653	9266	2 35.3
5	7 23 45.73	22.17	22 8 9.8	0 53.0	0.639 8387	9046	2 31.0
6	7 23 23.56	22.86	+22 9 2.8	0 54.3	0.638 9341	8820	2 26.7
7	7 23 0.70	23.55	22 9 57.1	0 55.4	0.638 0521	8590	2 22.4
8	7 22 37.15	24.22	22 10 52.5	0 56.5	0.637 1931	8354	2 18.1
9	7 22 12.93	24.87	22 11 49.0	0 57.5	0.636 3577	8113	2 13.8
10	7 21 48.06	25.52	22 12 46.5	0 58.6	0.635 5464	7867	2 9.4
11	7 21 22.54	26.14	22 13 45.1	0 59.6	0.634 7597	7615	2 5.1
12	7 20 56.40	26.76	+22 14 44.7	1 0.4	0.633 9982	7357	2 0.7
13	7 20 29.64	27.36	22 15 45.1	1 1.2	0.633 2625	7095	1 56.3
14	7 20 2.28	27.93	22 16 46.3	1 2.1	0.632 5530	6828	1 51.9
15	7 19 34.35	28.49	22 17 48.4	1 2.9	0.631 8702	6554	1 47.5
16	7 19 5.86	29.03	22 18 51.3	1 3.5	0.631 2148	6276	1 43.1
17	7 18 36.83	29.54	22 19 54.8	1 4.2	0.630 5872	5993	1 38.7
18	7 18 7.29	30.04	+22 20 59.0	1 4.7	0.629 9879	5706	1 34.3
19	7 17 37.25	30.52	22 22 3.7	1 5.2	0.629 4173	5415	1 29.9
20	7 17 6.73	30.97	22 23 8.9	1 5.7	0.628 8758	5119	1 25.4
21	7 16 35.76	31.40	22 24 14.6	1 6.1	0.628 3639	4820	1 21.0
22	7 16 4.36	31.80	22 25 20.7	1 6.4	0.627 8819	4518	1 16.5
23	7 15 32.56	32.18	22 26 27.1	1 6.7	0.627 4301	4211	1 12.1
24	7 15 0.38	32.54	+22 27 33.8	1 6.9	0.627 0090	3902	1 7.6
25	7 14 27.84	32.87	22 28 40.7	1 7.0	0.626 6188	3591	1 3.1
26	7 13 54.97	33.17	22 29 47.7	1 7.2	0.626 2597	3277	0 58.7
27	7 13 21.80	33.46	22 30 54.9	1 7.2	0.625 9320	2960	0 54.2
28	7 12 48.34	33.72	22 32 2.1	1 7.1	0.625 6360	2642	0 49.7
29	7 12 14.62	33.95	22 33 9.2	1 7.1	0.625 3718	2322	0 45.2
30	7 11 40.67	34.14	+22 34 16.3	1 6.9	0.625 1396	2000	0 40.7
31	7 11 6.53	34.32	22 35 23.2	1 6.6	0.624 9396	1676	0 36.2
32	7 10 32.21		+22 36 29.8		0.624 7720		0 31.7

Tag	0h Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	″			h m
Jan. 0	18 15 34.60	30.66	−22 37 34.5	8.1	1.042 3895	671	11 38.2
1	18 16 5.26	30.63	22 37 26.4	8.5	1.042 3224	774	11 34.7
2	18 16 35.89	30.59	22 37 17.9	8.9	1.042 2450	876	11 31.3
3	18 17 6.48	30.54	22 37 9.0	9.3	1.042 1574	980	11 27.9
4	18 17 37.02	30.49	22 36 59.7	9.7	1.042 0594	1084	11 24.5
5	18 18 7.51	30.43	22 36 50.0	10.2	1.041 9510	1187	11 21.0
6	18 18 37.94	30.36	−22 36 39.8	10.6	1.041 8323	1288	11 17.6
7	18 19 8.30	30.30	22 36 29.2	10.9	1.041 7035	1390	11 14.2
8	18 19 38.60	30.23	22 36 18.3	11.3	1.041 5645	1491	11 10.8
9	18 20 8.83	30.15	22 36 7.0	11.8	1.041 4154	1593	11 7.3
10	18 20 38.98	30.07	22 35 55.2	12.1	1.041 2561	1693	11 3.9
11	18 21 9.05	29.99	22 35 43.1	12.5	1.041 0868	1793	11 0.5
12	18 21 39.04	29.89	−22 35 30.6	12.9	1.040 9075	1894	10 57.0
13	18 22 8.93	29.79	22 35 17.7	13.2	1.040 7181	1993	10 53.6
14	18 22 38.72	29.69	22 35 4.5	13.5	1.040 5188	2093	10 50.2
15	18 23 8.41	29.59	22 34 51.0	13.9	1.040 3095	2192	10 46.7
16	18 23 38.00	29.47	22 34 37.1	14.3	1.040 0903	2291	10 43.3
17	18 24 7.47	29.36	22 34 22.8	14.6	1.039 8612	2390	10 39.8
18	18 24 36.83	29.25	−22 34 8.2	14.9	1.039 6222	2488	10 36.4
19	18 25 6.08	29.12	22 33 53.3	15.3	1.039 3734	2585	10 32.9
20	18 25 35.20	28.99	22 33 38.0	15.6	1.039 1149	2682	10 29.5
21	18 26 4.19	28.87	22 33 22.4	15.9	1.038 8467	2778	10 26.0
22	18 26 33.06	28.73	22 33 6.5	16.1	1.038 5689	2875	10 22.6
23	18 27 1.79	28.57	22 32 50.4	16.5	1.038 2814	2971	10 19.1
24	18 27 30.36	28.43	−22 32 33.9	16.7	1.037 9843	3067	10 15.6
25	18 27 58.79	28.28	22 32 17.2	17.0	1.037 6776	3164	10 12.2
26	18 28 27.07	28.11	22 32 0.2	17.3	1.037 3612	3259	10 8.7
27	18 28 55.18	27.95	22 31 42.9	17.5	1.037 0353	3354	10 5.3
28	18 29 23.13	27.78	22 31 25.4	17.8	1.036 6999	3447	10 1.8
29	18 29 50.91	27.60	22 31 7.6	18.0	1.036 3552	3542	9 58.3
30	18 30 18.51	27.42	−22 30 49.6	18.3	1.036 0010	3635	9 54.9
31	18 30 45.93	27.24	22 30 31.3	18.4	1.035 6375	3727	9 51.4
Febr. 1	18 31 13.17	27.04	22 30 12.9	18.7	1.035 2648	3818	9 47.9
2	18 31 40.21	26.85	22 29 54.2	18.9	1.034 8830	3908	9 44.4
3	18 32 7.06	26.65	22 29 35.3	19.0	1.034 4922	3998	9 40.9
4	18 32 33.71	26.44	22 29 16.3	19.2	1.034 0924	4086	9 37.4
5	18 33 0.15	26.23	−22 28 57.1	19.4	1.033 6838	4173	9 33.9
6	18 33 26.38	26.01	22 28 37.7	19.5	1.033 2665	4261	9 30.4
7	18 33 52.39	25.80	22 28 18.2	19.6	1.032 8404	4347	9 26.9
8	18 34 18.19	25.57	22 27 58.6	19.8	1.032 4057	4433	9 23.4
9	18 34 43.76	25.34	22 27 38.8	19.9	1.031 9624	4517	9 19.9
10	18 35 9.10		−22 27 18.9		1.031 5107		9 16.4

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	″			h m
Febr. 10	18 35 9.10	25.11	—22 27 18.9	20.0	1.031 5107	4599	9 16.4
11	18 35 34.21	24.88	22 26 58.9	20.0	1.031 0508	4682	9 12.9
12	18 35 59.09	24.63	22 26 38.9	20.2	1.030 5826	4764	9 9.4
13	18 36 23.72	24.39	22 26 18.7	20.2	1.030 1062	4845	9 5.8
14	18 36 48.11	24.14	22 25 58.5	20.2	1.029 6217	4925	9 2.3
15	18 37 12.25	23.89	22 25 38.3	20.3	1.029 1292	5005	8 58.8
16	18 37 36.14	23.63	—22 25 18.0	20.4	1.028 6287	5083	8 55.2
17	18 37 59.77	23.37	22 24 57.6	20.4	1.028 1204	5160	8 51.7
18	18 38 23.14	23.11	22 24 37.2	20.4	1.027 6044	5237	8 48.2
19	18 38 46.25	22.83	22 24 16.8	20.4	1.027 0807	5313	8 44.6
20	18 39 9.08	22.56	22 23 56.4	20.4	1.026 5494	5387	8 41.0
21	18 39 31.64	22.28	22 23 36.0	20.3	1.026 0107	5461	8 37.5
22	18 39 53.92	22.00	—22 23 15.7	20.3	1.025 4646	5534	8 33.9
23	18 40 15.92	21.71	22 22 55.4	20.3	1.024 9112	5606	8 30.3
24	18 40 37.63	21.41	22 22 35.1	20.2	1.024 3506	5676	8 26.8
25	18 40 59.04	21.11	22 22 14.9	20.1	1.023 7830	5746	8 23.2
26	18 41 20.15	20.81	22 21 54.8	20.1	1.023 2084	5815	8 19.6
27	18 41 40.96	20.50	22 21 34.7	20.0	1.022 6269	5882	8 16.0
28	18 42 1.46	20.19	—22 21 14.7	19.8	1.022 0387	5947	8 12.4
März 1	18 42 21.65	19.88	22 20 54.9	19.7	1.021 4440	6012	8 8.8
2	18 42 41.53	19.56	22 20 35.2	19.6	1.020 8428	6074	8 5.2
3	18 43 1.09	19.23	22 20 15.6	19.4	1.020 2354	6135	8 1.6
4	18 43 20.32	18.90	22 19 56.2	19.2	1.019 6219	6196	7 58.0
5	18 43 39.22	18.57	22 19 37.0	19.1	1.019 0023	6254	7 54.4
6	18 43 57.79	18.23	—22 19 17.9	18.9	1.018 3769	6311	7 50.8
7	18 44 16.02	17.90	22 18 59.0	18.7	1.017 7458	6366	7 47.1
8	18 44 33.92	17.55	22 18 40.3	18.5	1.017 1092	6420	7 43.5
9	18 44 51.47	17.21	22 18 21.8	18.2	1.016 4672	6473	7 39.9
10	18 45 8.68	16.87	22 18 3.6	18.0	1.015 8199	6524	7 36.2
11	18 45 25.55	16.51	22 17 45.6	17.7	1.015 1675	6574	7 32.6
12	18 45 42.06	16.15	—22 17 27.9	17.5	1.014 5101	6622	7 28.9
13	18 45 58.21	15.80	22 17 10.4	17.2	1.013 8479	6669	7 25.2
14	18 46 14.01	15.44	22 16 53.2	16.9	1.013 1810	6714	7 21.6
15	18 46 29.45	15.08	22 16 36.3	16.7	1.012 5096	6757	7 17.9
16	18 46 44.53	14.72	22 16 19.6	16.3	1.011 8339	6799	7 14.2
17	18 46 59.25	14.35	22 16 3.3	16.0	1.011 1540	6841	7 10.5
18	18 47 13.60	13.97	—22 15 47.3	15.7	1.010 4699	6881	7 6.8
19	18 47 27.57	13.59	22 15 31.6	15.3	1.009 7818	6919	7 3.1
20	18 47 41.16	13.22	22 15 16.3	15.0	1.009 0899	6956	6 59.4
21	18 47 54.38	12.84	22 15 1.3	14.7	1.008 3943	6990	6 55.7
22	18 48 7.22	12.45	22 14 46.6	14.3	1.007 6953	7023	6 52.0
23	18 48 19.67		—22 14 32.3		1.006 9930		6 48.2

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	″			h m
März 23	18 48 19.67	12.06	−22 14 32.3	13.9	1.006 9930	7055	6 48.2
24	18 48 31.73	11.67	22 14 18.4	13.5	1.006 2875	7085	6 44.5
25	18 48 43.40	11.28	22 14 4.9	13.1	1.005 5790	7112	6 40.8
26	18 48 54.68	10.88	22 13 51.8	12.7	1.004 8678	7138	6 37.0
27	18 49 5.56	10.47	22 13 39.1	12.3	1.004 1540	7162	6 33.2
28	18 49 16.03	10.07	22 13 26.8	11.9	1.003 4378	7184	6 29.5
29	18 49 26.10	9.67	−22 13 14.9	11.4	1.002 7194	7204	6 25.7
30	18 49 35.77	9.27	22 13 3.5	11.0	1.001 9990	7222	6 22.0
31	18 49 45.04	8.86	22 12 52.5	10.6	1.001 2768	7238	6 18.2
April 1	18 49 53.90	8.44	22 12 41.9	10.1	1.000 5530	7252	6 14.4
2	18 50 2.34	8.03	22 12 31.8	9.6	0.999 8278	7264	6 10.6
3	18 50 10.37	7.62	22 12 22.2	9.1	0.999 1014	7273	6 6.8
4	18 50 17.99	7.20	−22 12 13.1	8.7	0.998 3741	7281	6 3.0
5	18 50 25.19	6.78	22 12 4.4	8.1	0.997 6460	7287	5 59.2
6	18 50 31.97	6.37	22 11 56.3	7.7	0.996 9173	7290	5 55.4
7	18 50 38.34	5.95	22 11 48.6	7.1	0.996 1883	7290	5 51.6
8	18 50 44.29	5.53	22 11 41.5	6.7	0.995 4593	7291	5 47.7
9	18 50 49.82	5.12	22 11 34.8	6.1	0.994 7302	7289	5 43.9
10	18 50 54.94	4.69	−22 11 28.7	5.6	0.994 0013	7283	5 40.0
11	18 50 59.63	4.27	22 11 23.1	5.1	0.993 2730	7277	5 36.2
12	18 51 3.90	3.86	22 11 18.0	4.5	0.992 5453	7268	5 32.3
13	18 51 7.76	3.43	22 11 13.5	4.1	0.991 8185	7258	5 28.4
14	18 51 11.19	3.01	22 11 9.4	3.5	0.991 0927	7245	5 24.6
15	18 51 14.20	2.59	22 11 5.9	2.9	0.990 3682	7230	5 20.7
16	18 51 16.79	2.17	−22 11 3.0	2.5	0.989 6452	7214	5 16.8
17	18 51 18.96	1.74	22 11 0.5	1.9	0.988 9238	7195	5 12.9
18	18 51 20.70	1.32	22 10 58.6	1.4	0.988 2043	7174	5 9.0
19	18 51 22.02	0.89	22 10 57.2	0.8	0.987 4869	7151	5 5.1
20	18 51 22.91	0.47	22 10 56.4	0.3	0.986 7718	7125	5 1.1
21	18 51 23.38	0.05	22 10 56.1	0.3	0.986 0593	7098	4 57.2
22	18 51 23.43	0.38	−22 10 56.4	0.8	0.985 3495	7068	4 53.3
23	18 51 23.05	0.81	22 10 57.2	1.3	0.984 6427	7036	4 49.4
24	18 51 22.24	1.22	22 10 58.5	1.9	0.983 9391	7001	4 45.4
25	18 51 21.02	1.65	22 11 0.4	2.5	0.983 2390	6965	4 41.5
26	18 51 19.37	2.07	22 11 2.9	3.0	0.982 5425	6925	4 37.5
27	18 51 17.30	2.49	22 11 5.9	3.5	0.981 8500	6883	4 33.5
28	18 51 14.81	2.90	−22 11 9.4	4.1	0.981 1617	6838	4 29.6
29	18 51 11.91	3.32	22 11 13.5	4.7	0.980 4779	6792	4 25.6
30	18 51 8.59	3.74	22 11 18.2	5.2	0.979 7987	6742	4 21.6
Mai 1	18 51 4.85	4.16	22 11 23.4	5.7	0.979 1245	6691	4 17.6
2	18 51 0.69	4.56	22 11 29.1	6.3	0.978 4554	6637	4 13.6
3	18 50 56.13		−22 11 35.4		0.977 7917		4 9.6

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	″			h m
Mai 3	18 50 56.13	4.97	−22 11 35.4	6.9	0.977 7917	6580	4 9.6
4	18 50 51.16	5.37	22 11 42.3	7.3	0.977 1337	6521	4 5.6
5	18 50 45.79	5.77	22 11 49.6	7.9	0.976 4816	6460	4 1.5
6	18 50 40.02	6.17	22 11 57.5	8.4	0.975 8356	6396	3 57.5
7	18 50 33.85	6.57	22 12 5.9	8.9	0.975 1960	6331	3 53.5
8	18 50 27.28	6.96	22 12 14.8	9.4	0.974 5629	6264	3 49.4
9	18 50 20.32	7.34	−22 12 24.2	9.9	0.973 9365	6194	3 45.4
10	18 50 12.98	7.72	22 12 34.1	10.4	0.973 3171	6122	3 41.3
11	18 50 5.26	8.10	22 12 44.5	10.9	0.972 7049	6049	3 37.2
12	18 49 57.16	8.48	22 12 55.4	11.4	0.972 1000	5973	3 33.2
13	18 49 48.68	8.85	22 13 6.8	11.9	0.971 5027	5896	3 29.1
14	18 49 39.83	9.23	22 13 18.7	12.3	0.970 9131	5815	3 25.0
15	18 49 30.60	9.59	−22 13 31.0	12.8	0.970 3316	5733	3 21.0
16	18 49 21.01	9.94	22 13 43.8	13.2	0.969 7583	5649	3 16.9
17	18 49 11.07	10.30	22 13 57.0	13.7	0.969 1934	5562	3 12.8
18	18 49 0.77	10.66	22 14 10.7	14.1	0.968 6372	5474	3 8.7
19	18 48 50.11	11.01	22 14 24.8	14.5	0.968 0898	5383	3 4.6
20	18 48 39.10	11.35	22 14 39.3	14.9	0.967 5515	5289	3 0.4
21	18 48 27.75	11.68	−22 14 54.2	15.3	0.967 0226	5195	2 56.3
22	18 48 16.07	12.02	22 15 9.5	15.7	0.966 5031	5098	2 52.2
23	18 48 4.05	12.35	22 15 25.2	16.2	0.965 9933	4998	2 48.1
24	18 47 51.70	12.68	22 15 41.4	16.5	0.965 4935	4896	2 43.9
25	18 47 39.02	12.99	22 15 57.9	16.8	0.965 0039	4792	2 39.8
26	18 47 26.03	13.30	22 16 14.7	17.2	0.964 5247	4687	2 35.6
27	18 47 12.73	13.60	−22 16 31.9	17.6	0.964 0560	4579	2 31.5
28	18 46 59.13	13.89	22 16 49.5	17.9	0.963 5981	4469	2 27.3
29	18 46 45.24	14.19	22 17 7.4	18.2	0.963 1512	4357	2 23.2
30	18 46 31.05	14.47	22 17 25.6	18.5	0.962 7155	4243	2 19.0
31	18 46 16.58	14.74	22 17 44.1	18.9	0.962 2912	4128	2 14.8
Juni 1	18 46 1.84	15.01	22 18 3.0	19.1	0.961 8784	4012	2 10.6
2	18 45 46.83	15.26	−22 18 22.1	19.3	0.961 4772	3893	2 6.5
3	18 45 31.57	15.52	22 18 41.4	19.7	0.961 0879	3773	2 2.3
4	18 45 16.05	15.76	22 19 1.1	19.9	0.960 7106	3652	1 58.1
5	18 45 0.29	16.00	22 19 21.0	20.1	0.960 3454	3528	1 53.9
6	18 44 44.29	16.22	22 19 41.1	20.4	0.959 9926	3404	1 49.7
7	18 44 28.07	16.44	22 20 1.5	20.6	0.959 6522	3278	1 45.5
8	18 44 11.63	16.65	−22 20 22.1	20.8	0.959 3244	3151	1 41.3
9	18 43 54.98	16.86	22 20 42.9	21.0	0.959 0093	3023	1 37.1
10	18 43 38.12	17.06	22 21 3.9	21.1	0.958 7070	2894	1 32.9
11	18 43 21.06	17.24	22 21 25.0	21.3	0.958 4176	2763	1 28.7
12	18 43 3.82	17.42	22 21 46.3	21.4	0.958 1413	2633	1 24.4
13	18 42 46.40		−22 22 7.7		0.957 8780		1 20.2

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930		h m s	s	° ′ ″	″			h m
Juni	13	18 42 46.40	17.60	−22 22 7.7	21.6	0.957 8780	2501	1 20.2
	14	18 42 28.80	17.76	22 22 29.3	21.7	0.957 6279	2367	1 16.0
	15	18 42 11.04	17.91	22 22 51.0	21.8	0.957 3912	2231	1 11.8
	16	18 41 53.13	18.06	22 23 12.8	21.9	0.957 1681	2096	1 7.5
	17	18 41 35.07	18.19	22 23 34.7	22.0	0.956 9585	1960	1 3.3
	18	18 41 16.88	18.33	22 23 56.7	22.1	0.956 7625	1822	0 59.1
	19	18 40 58.55	18.45	−22 24 18.8	22.2	0.956 5803	1683	0 54.9
	20	18 40 40.10	18.55	22 24 41.0	22.2	0.956 4120	1544	0 50.6
	21	18 40 21.55	18.65	22 25 3.2	22.2	0.956 2576	1403	0 46.4
	22	18 40 2.90	18.76	22 25 25.4	22.3	0.956 1173	1262	0 42.1
	23	18 39 44.14	18.84	22 25 47.7	22.4	0.955 9911	1120	0 37.9
	24	18 39 25.30	18.90	22 26 10.1	22.3	0.955 8791	977	0 33.6
	25	18 39 6.40	18.97	−22 26 32.4	22.3	0.955 7814	834	0 29.4
	26	18 38 47.43	19.03	22 26 54.7	22.3	0.955 6980	690	0 25.1
	27	18 38 28.40	19.07	22 27 17.0	22.3	0.955 6290	546	0 20.9
	28	18 38 9.33	19.10	22 27 39.3	22.3	0.955 5744	403	0 16.6
	29	18 37 50.23	19.11	22 28 1.6	22.3	0.955 5341	259	0 12.4
	30	18 37 31.12	19.12	22 28 23.9	22.2	0.955 5082	114	0 8.1
Juli	1	18 37 12.00	19.13	−22 28 46.1	22.1	0.955 4968	29	{ 0 3.9 { 23 59.6
	2	18 36 52.87	19.12	22 29 8.2	22.1	0.955 4997	173	23 55.4
	3	18 36 33.75	19.10	22 29 30.3	22.0	0.955 5170	317	23 51.1
	4	18 36 14.65	19.07	22 29 52.3	21.9	0.955 5487	460	23 46.9
	5	18 35 55.58	19.04	22 30 14.2	21.8	0.955 5947	602	23 42.7
	6	18 35 36.54	18.99	22 30 36.0	21.7	0.955 6549	744	23 38.4
	7	18 35 17.55	18.93	−22 30 57.7	21.6	0.955 7293	887	23 34.2
	8	18 34 58.62	18.86	22 31 19.3	21.4	0.955 8180	1029	23 30.0
	9	18 34 39.76	18.79	22 31 40.7	21.3	0.955 9209	1169	23 25.7
	10	18 34 20.97	18.71	22 32 2.0	21.2	0.956 0378	1310	23 21.5
	11	18 34 2.26	18.62	22 32 23.2	21.1	0.956 1688	1449	23 17.2
	12	18 33 43.64	18.51	22 32 44.3	20.9	0.956 3137	1589	23 12.9
	13	18 33 25.13	18.41	−22 33 5.2	20.8	0.956 4726	1727	23 8.7
	14	18 33 6.72	18.29	22 33 26.0	20.6	0.956 6453	1865	23 4.5
	15	18 32 48.43	18.15	22 33 46.6	20.5	0.956 8318	2001	23 0.3
	16	18 32 30.28	18.02	22 34 7.1	20.3	0.957 0319	2138	22 56.0
	17	18 32 12.26	17.88	22 34 27.4	20.1	0.957 2457	2274	22 51.8
	18	18 31 54.38	17.72	22 34 47.5	19.9	0.957 4731	2408	22 47.6
	19	18 31 36.66	17.56	−22 35 7.4	19.8	0.957 7139	2541	22 43.3
	20	18 31 19.10	17.39	22 35 27.2	19.6	0.957 9680	2675	22 39.1
	21	18 31 1.71	17.21	22 35 46.8	19.3	0.958 2355	2807	22 34.9
	22	18 30 44.50	17.01	22 36 6.1	19.1	0.958 5162	2938	22 30.7
	23	18 30 27.49	16.81	22 36 25.2	19.0	0.958 8100	3067	22 26.5
	24	18 30 10.68		−22 36 44.2		0.959 1167		22 22.3

Tag		Scheinbare Rektaszension (0h Welt-Zeit)		Scheinbare Deklination (0h Welt-Zeit)		log Δ (0h Welt-Zeit)		Obere Kulmination in Greenwich
1930		h m s	s	° ′ ″	″			h m
Juli	24	18 30 10.68	16.61	−22 36 44.2	18.8	0.959 1167	3195	22 22.3
	25	18 29 54.07	16.39	22 37 3.0	18.5	0.959 4362	3322	22 18.1
	26	18 29 37.68	16.16	22 37 21.5	18.4	0.959 7684	3448	22 13.9
	27	18 29 21.52	15.92	22 37 39.9	18.2	0.960 1132	3571	22 9.7
	28	18 29 5.60	15.69	22 37 58.1	18.0	0.960 4703	3693	22 5.5
	29	18 28 49.91	15.44	22 38 16.1	17.8	0.960 8396	3813	22 1.3
	30	18 28 34.47	15.17	−22 38 33.9	17.5	0.961 2209	3932	21 57.1
	31	18 28 19.30	14.90	22 38 51.4	17.3	0.961 6141	4049	21 52.9
Aug.	1	18 28 4.40	14.64	22 39 8.7	17.1	0.962 0190	4163	21 48.8
	2	18 27 49.76	14.36	22 39 25.8	16.9	0.962 4353	4276	21 44.6
	3	18 27 35.40	14.07	22 39 42.7	16.7	0.962 8629	4387	21 40.4
	4	18 27 21.33	13.77	22 39 59.4	16.4	0.963 3016	4496	21 36.3
	5	18 27 7.56	13.48	−22 40 15.8	16.2	0.963 7512	4603	21 32.1
	6	18 26 54.08	13.18	22 40 32.0	15.9	0.964 2115	4708	21 28.0
	7	18 26 40.90	12.86	22 40 47.9	15.7	0.964 6823	4812	21 23.8
	8	18 26 28.04	12.54	22 41 3.6	15.5	0.965 1635	4913	21 19.7
	9	18 26 15.50	12.23	22 41 19.1	15.3	0.965 6548	5013	21 15.5
	10	18 26 3.27	11.90	22 41 34.4	15.1	0.966 1561	5111	21 11.4
	11	18 25 51.37	11.56	−22 41 49.5	14.8	0.966 6672	5206	21 7.3
	12	18 25 39.81	11.23	22 42 4.3	14.6	0.967 1878	5300	21 3.1
	13	18 25 28.58	10.89	22 42 18.9	14.3	0.967 7178	5393	20 59.0
	14	18 25 17.69	10.54	22 42 33.2	14.2	0.968 2571	5483	20 55.0
	15	18 25 7.15	10.18	22 42 47.4	13.9	0.968 8054	5570	20 50.9
	16	18 24 56.97	9.83	22 43 1.3	13.6	0.969 3624	5657	20 46.8
	17	18 24 47.14	9.47	−22 43 14.9	13.5	0.969 9281	5741	20 42.7
	18	18 24 37.67	9.09	22 43 28.4	13.2	0.970 5022	5823	20 38.6
	19	18 24 28.58	8.72	22 43 41.6	13.0	0.971 0845	5902	20 34.5
	20	18 24 19.86	8.35	22 43 54.6	12.8	0.971 6747	5980	20 30.4
	21	18 24 11.51	7.96	22 44 7.4	12.6	0.972 2727	6055	20 26.4
	22	18 24 3.55	7.58	22 44 20.0	12.3	0.972 8782	6128	20 22.3
	23	18 23 55.97	7.19	−22 44 32.3	12.1	0.973 4910	6200	20 18.3
	24	18 23 48.78	6.79	22 44 44.4	11.8	0.974 1110	6268	20 14.2
	25	18 23 41.99	6.39	22 44 56.2	11.7	0.974 7378	6334	20 10.1
	26	18 23 35.60	6.00	22 45 7.9	11.4	0.975 3712	6398	20 6.1
	27	18 23 29.60	5.59	22 45 19.3	11.2	0.976 0110	6459	20 2.1
	28	18 23 24.01	5.18	22 45 30.5	11.0	0.976 6569	6518	19 58.1
	29	18 23 18.83	4.78	−22 45 41.5	10.7	0.977 3087	6574	19 54.1
	30	18 23 14.05	4.36	22 45 52.2	10.5	0.977 9661	6627	19 50.1
	31	18 23 9.69	3.94	22 46 2.7	10.3	0.978 6288	6678	19 46.1
Sept.	1	18 23 5.75	3.54	22 46 13.0	10.0	0.979 2966	6727	19 42.1
	2	18 23 2.21	3.12	22 46 23.0	9.8	0.979 9693	6775	19 38.1
	3	18 22 59.09		−22 46 32.8		0.980 6468		19 34.1

Tag	0h Welt-Zeit Scheinbare Rektaszension		0h Welt-Zeit Scheinbare Deklination		0h Welt-Zeit log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	″			h m
Sept. 3	18 22 59.09	2.70	−22 46 32.8	9.5	0.980 6468	6819	19 34.1
4	18 22 56.39	2.28	22 46 42.3	9.3	0.981 3287	6860	19 30.1
5	18 22 54.11	1.87	22 46 51.6	9.1	0.982 0147	6900	19 26.2
6	18 22 52.24	1.44	22 47 0.7	8.9	0.982 7047	6939	19 22.2
7	18 22 50.80	1.02	22 47 9.6	8.6	0.983 3986	6974	19 18.3
8	18 22 49.78	0.60	22 47 18.2	8.3	0.984 0960	7007	19 14.4
9	18 22 49.18	0.18	−22 47 26.5	8.1	0.984 7967	7039	19 10.4
10	18 22 49.00	0.25	22 47 34.6	7.9	0.985 5006	7069	19 6.5
11	18 22 49.25	0.67	22 47 42.5	7.7	0.986 2075	7096	19 2.6
12	18 22 49.92	1.09	22 47 50.2	7.4	0.986 9171	7120	18 58.6
13	18 22 51.01	1.51	22 47 57.6	7.2	0.987 6291	7144	18 54.7
14	18 22 52.52	1.95	22 48 4.8	6.9	0.988 3435	7165	18 50.8
15	18 22 54.47	2.37	−22 48 11.7	6.7	0.989 0600	7184	18 46.9
16	18 22 56.84	2.79	22 48 18.4	6.4	0.989 7784	7200	18 43.0
17	18 22 59.63	3.22	22 48 24.8	6.2	0.990 4984	7215	18 39.2
18	18 23 2.85	3.65	22 48 31.0	5.9	0.991 2199	7227	18 35.3
19	18 23 6.50	4.07	22 48 36.9	5.7	0.991 9426	7237	18 31.4
20	18 23 10.57	4.50	22 48 42.6	5.4	0.992 6663	7245	18 27.6
21	18 23 15.07	4.93	−22 48 48.0	5.1	0.993 3908	7251	18 23.7
22	18 23 20.00	5.35	22 48 53.1	4.9	0.994 1159	7254	18 19.9
23	18 23 25.35	5.78	22 48 58.0	4.6	0.994 8413	7255	18 16.0
24	18 23 31.13	6.20	22 49 2.6	4.3	0.995 5668	7255	18 12.2
25	18 23 37.33	6.62	22 49 6.9	4.1	0.996 2923	7251	18 8.4
26	18 23 43.95	7.04	22 49 11.0	3.7	0.997 0174	7245	18 4.6
27	18 23 50.99	7.46	−22 49 14.7	3.5	0.997 7419	7236	18 0.8
28	18 23 58.45	7.87	22 49 18.2	3.2	0.998 4655	7227	17 56.9
29	18 24 6.32	8.29	22 49 21.4	2.9	0.999 1882	7216	17 53.1
30	18 24 14.61	8.70	22 49 24.3	2.7	0.999 9098	7202	17 49.3
Okt. 1	18 24 23.31	9.11	22 49 27.0	2.3	1.000 6300	7187	17 45.6
2	18 24 32.42	9.51	22 49 29.3	2.0	1.001 3487	7170	17 41.8
3	18 24 41.93	9.92	−22 49 31.3	1.7	1.002 0657	7150	17 38.0
4	18 24 51.85	10.32	22 49 33.0	1.3	1.002 7807	7129	17 34.2
5	18 25 2.17	10.72	22 49 34.3	1.1	1.003 4936	7106	17 30.5
6	18 25 12.89	11.12	22 49 35.4	0.7	1.004 2042	7082	17 26.8
7	18 25 24.01	11.51	22 49 36.1	0.5	1.004 9124	7056	17 23.0
8	18 25 35.52	11.90	22 49 36.6	0.1	1.005 6180	7027	17 19.3
9	18 25 47.42	12.29	−22 49 36.7	0.2	1.006 3207	6998	17 15.6
10	18 25 59.71	12.68	22 49 36.5	0.6	1.007 0205	6968	17 11.8
11	18 26 12.39	13.06	22 49 35.9	0.9	1.007 7173	6935	17 8.1
12	18 26 25.45	13.44	22 49 35.0	1.2	1.008 4108	6901	17 4.4
13	18 26 38.89	13.82	22 49 33.8	1.6	1.009 1009	6866	17 0.7
14	18 26 52.71		−22 49 32.2		1.009 7875		16 57.0

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	″			h m
Okt. 14	18 26 52.71	14.20	—22 49 32.2	1.9	1.009 7875	6828	16 57.0
15	18 27 6.91	14.57	22 49 30.3	2.3	1.010 4703	6788	16 53.3
16	18 27 21.48	14.94	22 49 28.0	2.7	1.011 1491	6748	16 49.6
17	18 27 36.42	15.31	22 49 25.3	3.1	1.011 8239	6705	16 46.0
18	18 27 51.73	15.68	22 49 22.2	3.4	1.012 4944	6661	16 42.3
19	18 28 7.41	16.04	22 49 18.8	3.7	1.013 1605	6615	16 38.6
20	18 28 23.45	16.40	—22 49 15.1	4.1	1.013 8220	6567	16 35.0
21	18 28 39.85	16.75	22 49 11.0	4.5	1.014 4787	6518	16 31.3
22	18 28 56.60	17.10	22 49 6.5	5.0	1.015 1305	6468	16 27.6
23	18 29 13.70	17.45	22 49 1.5	5.3	1.015 7773	6415	16 24.0
24	18 29 31.15	17.80	22 48 56.2	5.7	1.016 4188	6360	16 20.4
25	18 29 48.95	18.14	22 48 50.5	6.2	1.017 0548	6305	16 16.7
26	18 30 7.09	18.48	—22 48 44.3	6.6	1.017 6853	6249	16 13.1
27	18 30 25.57	18.81	22 48 37.7	7.0	1.018 3102	6190	16 9.5
28	18 30 44.38	19.13	22 48 30.7	7.4	1.018 9292	6130	16 5.9
29	18 31 3.51	19.45	22 48 23.3	7.9	1.019 5422	6069	16 2.3
30	18 31 22.96	19.77	22 48 15.4	8.3	1.020 1491	6007	15 58.6
31	18 31 42.73	20.08	22 48 7.1	8.7	1.020 7498	5944	15 55.0
Nov. 1	18 32 2.81	20.40	—22 47 58.4	9.1	1.021 3442	5879	15 51.4
2	18 32 23.21	20.70	22 47 49.3	9.6	1.021 9321	5814	15 47.9
3	18 32 43.91	21.00	22 47 39.7	10.1	1.022 5135	5747	15 44.3
4	18 33 4.91	21.30	22 47 29.6	10.5	1.023 0882	5679	15 40.7
5	18 33 26.21	21.59	22 47 19.1	11.0	1.023 6561	5609	15 37.1
6	18 33 47.80	21.88	22 47 8.1	11.4	1.024 2170	5540	15 33.5
7	18 34 9.68	22.16	—22 46 56.7	11.9	1.024 7710	5470	15 30.0
8	18 34 31.84	22.44	22 46 44.8	12.3	1.025 3180	5398	15 26.4
9	18 34 54.28	22.72	22 46 32.5	12.9	1.025 8578	5324	15 22.8
10	18 35 17.00	23.00	22 46 19.6	13.3	1.026 3902	5251	15 19.3
11	18 35 40.00	23.26	22 46 6.3	13.8	1.026 9153	5176	15 15.7
12	18 36 3.26	23.52	22 45 52.5	14.3	1.027 4329	5100	15 12.2
13	18 36 26.78	23.79	—22 45 38.2	14.7	1.027 9429	5022	15 8.7
14	18 36 50.57	24.04	22 45 23.5	15.3	1.028 4451	4944	15 5.2
15	18 37 14.61	24.30	22 45 8.2	15.7	1.028 9395	4865	15 1.6
16	18 37 38.91	24.54	22 44 52.5	16.2	1.029 4260	4785	14 58.1
17	18 38 3.45	24.78	22 44 36.3	16.7	1.029 9045	4703	14 54.6
18	18 38 28.23	25.03	22 44 19.6	17.3	1.030 3748	4620	14 51.0
19	18 38 53.26	25.26	—22 44 2.3	17.7	1.030 8368	4537	14 47.5
20	18 39 18.52	25.48	22 43 44.6	18.3	1.031 2905	4453	14 44.0
21	18 39 44.00	25.71	22 43 26.3	18.7	1.031 7358	4367	14 40.5
22	18 40 9.71	25.93	22 43 7.6	19.3	1.032 1725	4281	14 37.0
23	18 40 35.64	26.14	22 42 48.3	19.9	1.032 6006	4194	14 33.5
24	18 41 1.78		—22 42 28.4		1.033 0200		14 30.0

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	″			h m
Nov. 24	18 41 1.78	26.35	−22 42 28.4	20.3	1.033 0200	4106	14 30.0
25	18 41 28.13	26.55	22 42 8.1	20.9	1.033 4306	4017	14 26.5
26	18 41 54.68	26.75	22 41 47.2	21.4	1.033 8323	3928	14 23.0
27	18 42 21.43	26.95	22 41 25.8	21.9	1.034 2251	3838	14 19.5
28	18 42 48.38	27.13	22 41 3.9	22.4	1.034 6089	3747	14 16.0
29	18 43 15.51	27.31	22 40 41.5	22.9	1.034 9836	3656	14 12.6
30	18 43 42.82	27.49	−22 40 18.6	23.5	1.035 3492	3564	14 9.1
Dez. 1	18 44 10.31	27.66	22 39 55.1	23.9	1.035 7056	3472	14 5.6
2	18 44 37.97	27.82	22 39 31.2	24.5	1.036 0528	3379	14 2.2
3	18 45 5.79	27.99	22 39 6.7	25.1	1.036 3907	3286	13 58.7
4	18 45 33.78	28.15	22 38 41.6	25.5	1.036 7193	3193	13 55.2
5	18 46 1.93	28.30	22 38 16.1	26.1	1.037 0386	3099	13 51.8
6	18 46 30.23	28.45	−22 37 50.0	26.7	1.037 3485	3004	13 48.3
7	18 46 58.68	28.59	22 37 23.3	27.1	1.037 6489	2908	13 44.8
8	18 47 27.27	28.73	22 36 56.2	27.7	1.037 9397	2813	13 41.4
9	18 47 56.00	28.87	22 36 28.5	28.1	1.038 2210	2717	13 37.9
10	18 48 24.87	28.99	22 36 0.4	28.7	1.038 4927	2621	13 34.5
11	18 48 53.86	29.12	22 35 31.7	29.1	1.038 7548	2524	13 31.0
12	18 49 22.98	29.25	−22 35 2.6	29.7	1.039 0072	2426	13 27.6
13	18 49 52.23	29.36	22 34 32.9	30.2	1.039 2498	2328	13 24.1
14	18 50 21.59	29.48	22 34 2.7	30.7	1.039 4826	2229	13 20.7
15	18 50 51.07	29.58	22 33 32.0	31.3	1.039 7055	2130	13 17.2
16	18 51 20.65	29.68	22 33 0.7	31.7	1.039 9185	2030	13 13.8
17	18 51 50.33	29.78	22 32 29.0	32.3	1.040 1215	1929	13 10.4
18	18 52 20.11	29.87	−22 31 56.7	32.7	1.040 3144	1828	13 6.9
19	18 52 49.98	29.95	22 31 24.0	33.3	1.040 4972	1727	13 3.5
20	18 53 19.93	30.03	22 30 50.7	33.7	1.040 6699	1626	13 0.1
21	18 53 49.96	30.11	22 30 17.0	34.3	1.040 8325	1524	12 56.6
22	18 54 20.07	30.18	22 29 42.7	34.7	1.040 9849	1422	12 53.2
23	18 54 50.25	30.24	22 29 8.0	35.2	1.041 1271	1320	12 49.8
24	18 55 20.49	30.29	−22 28 32.8	35.7	1.041 2591	1218	12 46.3
25	18 55 50.78	30.35	22 27 57.1	36.2	1.041 3809	1114	12 42.9
26	18 56 21.13	30.39	22 27 20.9	36.6	1.041 4923	1012	12 39.5
27	18 56 51.52	30.44	22 26 44.3	37.1	1.041 5935	910	12 36.0
28	18 57 21.96	30.48	22 26 7.2	37.5	1.041 6845	807	12 32.6
29	18 57 52.44	30.51	22 25 29.7	37.9	1.041 7652	703	12 29.2
30	18 58 22.95	30.53	−22 24 51.8	38.4	1.041 8355	601	12 25.8
31	18 58 53.48	30.55	22 24 13.4	38.9	1.041 8956	498	12 22.3
32	18 59 24.03		−22 23 34.5		1.041 9454		12 18.9

Tag	0h Welt-Zeit: Scheinbare Rektaszension	Diff.	0h Welt-Zeit: Scheinbare Deklination	Diff.	0h Welt-Zeit: log Δ	Diff.	Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	′ ″			h m
Jan. −1	0 28 43.50	10.99	+2 21 4.5	1 21.2	1.301 4167	1 4923	17 54.0
+3	0 28 54.49	13.99	2 22 25.7	1 40.3	1.302 9090	1 4791	17 38.5
7	0 29 8.48	16.92	2 24 6.0	1 59.1	1.304 3881	1 4586	17 23.0
11	0 29 25.40	19.79	2 26 5.1	2 17.2	1.305 8467	1 4318	17 7.6
15	0 29 45.19	22.56	2 28 22.3	2 34.8	1.307 2785	1 3989	16 52.2
19	0 30 7.75	25.26	2 30 57.1	2 51.9	1.308 6774	1 3602	16 36.8
23	0 30 33.01	27.87	+2 33 49.0	3 8.3	1.310 0376	1 3156	16 21.5
27	0 31 0.88	30.38	2 36 57.3	3 24.1	1.311 3532	1 2650	16 6.3
31	0 31 31.26	32.77	2 40 21.4	3 39.0	1.312 6182	1 2089	15 51.1
Febr. 4	0 32 4.03	35.02	2 44 0.4	3 52.9	1.313 8271	1 1476	15 35.9
8	0 32 39.05	37.12	2 47 53.3	4 5.9	1.314 9747	1 0823	15 20.7
12	0 33 16.17	39.08	2 51 59.2	4 17.9	1.316 0570	1 0133	15 5.6
16	0 33 55.25	40.90	+2 56 17.1	4 29.0	1.317 0703	9407	14 50.6
20	0 34 36.15	42.60	3 0 46.1	4 39.2	1.318 0110	8646	14 35.5
24	0 35 18.75	44.14	3 5 25.3	4 48.4	1.318 8756	7851	14 20.5
28	0 36 2.89	45.52	3 10 13.7	4 56.6	1.319 6607	7026	14 5.5
März 4	0 36 48.41	46.72	3 15 10.3	5 3.6	1.320 3633	6176	13 50.5
8	0 37 35.13	47.76	3 20 13.9	5 9.4	1.320 9809	5311	13 35.6
12	0 38 22.89	48.63	+3 25 23.3	5 14.1	1.321 5120	4432	13 20.6
16	0 39 11.52	49.35	3 30 37.4	5 18.0	1.321 9552	3543	13 5.7
20	0 40 0.87	49.91	3 35 55.4	5 20.8	1.322 3095	2645	12 50.8
24	0 40 50.78	50.31	3 41 16.2	5 22.6	1.322 5740	1734	12 35.9
28	0 41 41.09	50.55	3 46 38.8	5 23.2	1.322 7474	816	12 21.0
April 1	0 42 31.64	50.60	3 52 2.0	5 22.7	1.322 8290	100	12 6.1
5	0 43 22.24	50.48	+3 57 24.7	5 21.1	1.322 8190	1009	11 51.2
9	0 44 12.72	50.20	4 2 45.8	5 18.5	1.322 7181	1908	11 36.3
13	0 45 2.92	49.78	4 8 4.3	5 14.9	1.322 5273	2797	11 21.5
17	0 45 52.70	49.20	4 13 19.2	5 10.5	1.322 2476	3676	11 6.6
21	0 46 41.90	48.48	4 18 29.7	5 5.2	1.321 8800	4541	10 51.6
25	0 47 30.38	47.58	4 23 34.9	4 58.8	1.321 4259	5393	10 36.7
29	0 48 17.96	46.53	+4 28 33.7	4 51.3	1.320 8866	6225	10 21.8
Mai 3	0 49 4.49	45.33	4 33 25.0	4 42.8	1.320 2641	7032	10 6.8
7	0 49 49.82	43.98	4 38 7.8	4 33.6	1.319 5609	7807	9 51.8
11	0 50 33.80	42.49	4 42 41.4	4 23.6	1.318 7802	8548	9 36.8
15	0 51 16.29	40.89	4 47 5.0	4 12.8	1.317 9254	9265	9 21.8
19	0 51 57.18	39.16	4 51 17.8	4 1.3	1.316 9989	9952	9 6.8
23	0 52 36.34	37.28	+4 55 19.1	3 48.9	1.316 0037	1 0602	8 51.7
27	0 53 13.62	35.27	4 59 8.0	3 35.8	1.314 9435	1 1214	8 36.6
31	0 53 48.89	33.14	5 2 43.8	3 21.9	1.313 8221	1 1780	8 21.4
Juni 4	0 54 22.03	30.91	5 6 5.7	3 7.4	1.312 6441	1 2298	8 6.2
8	0 54 52.94	28.58	5 9 13.1	2 52.3	1.311 4143	1 2768	7 51.0
12	0 55 21.52		+5 12 5.4		1.310 1375		7 35.8

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	′ ″			h m
Juni 12	0 55 21.52	26.16	+5 12 5.4	2 36.9	1.310 1375	1 3191	7 35.8
16	0 55 47.68	23.66	5 14 42.3	2 20.9	1.308 8184	1 3568	7 20.5
20	0 56 11.34	21.05	5 17 3.2	2 4.3	1.307 4616	1 3893	7 5.1
24	0 56 32.39	18.37	5 19 7.5	1 47.3	1.306 0723	1 4162	6 49.7
28	0 56 50.76	15.62	5 20 54.8	1 30.0	1.304 6561	1 4366	6 34.3
Juli 2	0 57 6.38	12.83	5 22 24.8	1 12.3	1.303 2195	1 4507	6 18.8
6	0 57 19.21	10.00	+5 23 37.1	0 54.6	1.301 7688	1 4586	6 3.3
10	0 57 29.21	7.14	5 24 31.7	0 36.8	1.300 3102	1 4605	5 47.8
14	0 57 36.35	4.27	5 25 8.5	0 18.9	1.298 8497	1 4564	5 32.2
18	0 57 40.62	1.38	5 25 27.4	0 0.9	1.297 3933	1 4460	5 16.5
22	0 57 42.00	1.53	5 25 28.3	0 17.1	1.295 9473	1 4284	5 0.8
26	0 57 40.47	4.40	5 25 11.2	0 35.0	1.294 5189	1 4035	4 45.0
30	0 57 36.07	7.23	+5 24 36.2	0 52.4	1.293 1154	1 3716	4 29.2
Aug. 3	0 57 28.84	10.01	5 23 43.8	1 9.6	1.291 7438	1 3330	4 13.4
7	0 57 18.83	12.72	5 22 34.2	1 26.3	1.290 4108	1 2880	3 57.5
11	0 57 6.11	15.36	5 21 7.9	1 42.4	1.289 1228	1 2367	3 41.5
15	0 56 50.75	17.90	5 19 25.5	1 58.0	1.287 8861	1 1787	3 25.5
19	0 56 32.85	20.35	5 17 27.5	2 13.0	1.286 7074	1 1144	3 9.5
23	0 56 12.50	22.67	+5 15 14.5	2 27.2	1.285 5930	1 0433	2 53.5
27	0 55 49.83	24.85	5 12 47.3	2 40.4	1.284 5497	9658	2 37.4
31	0 55 24.98	26.85	5 10 6.9	2 52.5	1.283 5839	8830	2 21.2
Sept. 4	0 54 58.13	28.68	5 7 14.4	3 3.5	1.282 7009	7953	2 5.0
8	0 54 29.45	30.34	5 4 10.9	3 13.4	1.281 9056	7032	1 48.8
12	0 53 59.11	31.81	5 0 57.5	3 22.1	1.281 2024	6068	1 32.6
16	0 53 27.30	33.08	+4 57 35.4	3 29.7	1.280 5956	5063	1 16.4
20	0 52 54.22	34.14	4 54 5.7	3 35.9	1.280 0893	4017	1 0.1
24	0 52 20.08	34.95	4 50 29.8	3 40.5	1.279 6876	2943	0 43.8
28	0 51 45.13	35.51	4 46 49.3	3 43.5	1.279 3933	1849	0 27.5
Okt. 2	0 51 9.62	35.85	4 43 5.8	3 44.9	1.279 2084	746	0 11.2
6	0 50 33.77	35.94	4 39 20.9	3 45.0	1.279 1338	363	23 50.8
10	0 49 57.83	35.79	+4 35 35.9	3 43.7	1.279 1701	1472	23 34.5
14	0 49 22.04	35.41	4 31 52.2	3 40.7	1.279 3173	2579	23 18.1
18	0 48 46.63	34.79	4 28 11.5	3 36.2	1.279 5752	3681	23 1.8
22	0 48 11.84	33.91	4 24 35.3	3 30.2	1.279 9433	4762	22 45.5
26	0 47 37.93	32.77	4 21 5.1	3 22.5	1.280 4195	5815	22 29.2
30	0 47 5.16	31.42	4 17 42.6	3 13.3	1.281 0010	6830	22 13.0
Nov. 3	0 46 33.74	29.86	+4 14 29.3	3 3.0	1.281 6840	7803	21 56.7
7	0 46 3.88	28.09	4 11 26.3	2 51.4	1.282 4643	8733	21 40.5
11	0 45 35.79	26.14	4 8 34.9	2 38.5	1.283 3376	9618	21 24.3
15	0 45 9.65	24.00	4 5 56.4	2 24.5	1.284 2994	1 0450	21 8.2
19	0 44 45.65	21.68	4 3 31.9	2 9.4	1.285 3444	1 1224	20 52.1
23	0 44 23.97		+4 1 22.5		1.286 4668		20 36.0

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	′ ″			h m
Nov. 23	0 44 23.97	19.19	+4 1 22.5	1 53.2	1.286 4668	1 1927	20 36.0
27	0 44 4.78	16.57	3 59 29.3	1 36.2	1.287 6595	1 2561	20 19.9
Dez. 1	0 43 48.21	13.84	3 57 53.1	1 18.6	1.288 9156	1 3122	20 3.9
5	0 43 34.37	11.03	3 56 34.5	1 0.5	1.290 2278	1 3611	19 48.0
9	0 43 23.34	8.14	3 55 34.0	0 42.0	1.291 5889	1 4031	19 32.1
13	0 43 15.20	5.17	3 54 52.0	0 22.8	1.292 9920	1 4381	19 16.2
17	0 43 10.03	2.12	+3 54 29.2	0 3.4	1.294 4301	1 4651	19 0.4
21	0 43 7.91	0.95	3 54 25.8	0 16.2	1.295 8952	1 4841	18 44.7
25	0 43 8.86	4.02	3 54 42.0	0 35.8	1.297 3793	1 4951	18 29.0
29	0 43 12.88	7.08	3 55 17.8	0 55.3	1.298 8744	1 4983	18 13.3
33	0 43 19.96		+3 56 13.1		1.300 3727		17 57.7

Tag	0^h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	′ ″			h m
Jan. −1	10 22 22.16	12.56	+10 51 17.5	1 19.4	1.470 9855	8200	3 49.9
+3	10 22 9.60	14.31	10 52 36.9	1 29.2	1.470 1655	7760	3 34.0
7	10 21 55.29	15.97	10 54 6.1	1 38.3	1.469 3895	7276	3 18.0
11	10 21 39.32	17.52	10 55 44.4	1 46.9	1.468 6619	6753	3 2.0
15	10 21 21.80	18.95	10 57 31.3	1 54.6	1.467 9866	6195	2 46.0
19	10 21 2.85	20.28	10 59 25.9	2 1.7	1.467 3671	5604	2 30.0
23	10 20 42.57	21.46	+11 1 27.6	2 8.1	1.466 8067	4981	2 13.9
27	10 20 21.11	22.52	11 3 35.7	2 13.6	1.466 3086	4323	1 57.8
31	10 19 58.59	23.41	11 5 49.3	2 18.2	1.465 8763	3640	1 41.7
Febr. 4	10 19 35.18	24.15	11 8 7.5	2 21.8	1.465 5123	2940	1 25.6
8	10 19 11.03	24.72	11 10 29.3	2 24.4	1.465 2183	2225	1 9.5
12	10 18 46.31	25.14	11 12 53.7	2 26.2	1.464 9958	1501	0 53.4
16	10 18 21.17	25.40	+11 15 19.9	2 27.1	1.464 8457	771	0 37.2
20	10 17 55.77	25.49	11 17 47.0	2 27.1	1.464 7686	37	0 21.1
24	10 17 30.28	25.43	11 20 14.1	2 26.1	1.464 7649	701	0 4.9
28	10 17 4.85	25.19	11 22 40.2	2 24.2	1.464 8350	1433	23 44.7
März 4	10 16 39.66	24.79	11 25 4.4	2 21.2	1.464 9783	2152	23 28.6
8	10 16 14.87	24.21	11 27 25.6	2 17.4	1.465 1935	2854	23 12.5
12	10 15 50.66	23.50	+11 29 43.0	2 12.9	1.465 4789	3537	22 56.4
16	10 15 27.16	22.64	11 31 55.9	2 7.6	1.465 8326	4197	22 40.2
20	10 15 4.52	21.65	11 34 3.5	2 1.4	1.466 2523	4834	22 24.1
24	10 14 42.87	20.52	11 36 4.9	1 54.6	1.466 7357	5443	22 8.0
28	10 14 22.35	19.26	11 37 59.5	1 47.1	1.467 2800	6022	21 52.0
April 1	10 14 3.09	17.87	11 39 46.6	1 38.9	1.467 8822	6566	21 35.9
5	10 13 45.22	16.37	+11 41 25.5	1 30.1	1.468 5388	7067	21 19.9
9	10 13 28.85	14.78	11 42 55.6	1 20.9	1.469 2455	7528	21 3.9
13	10 13 14.07	13.12	11 44 16.5	1 11.3	1.469 9983	7949	20 47.9
17	10 13 0.95	11.38	11 45 27.8	1 1.3	1.470 7932	8328	20 32.0
21	10 12 49.57	9.57	11 46 29.1	0 50.9	1.471 6260	8668	20 16.1
25	10 12 40.00	7.69	11 47 20.0	0 40.3	1.472 4928	8965	20 0.2
29	10 12 32.31	5.76	+11 48 0.3	0 29.4	1.473 3893	9212	19 44.4
Mai 3	10 12 26.55	3.79	11 48 29.7	0 18.3	1.474 3105	9408	19 28.6
7	10 12 22.76	1.80	11 48 48.0	0 7.1	1.475 2513	9561	19 12.8
11	10 12 20.96	0.18	11 48 55.1	0 4.0	1.476 2074	9668	18 57.0
15	10 12 21.14	2.17	11 48 51.1	0 15.2	1.477 1742	9731	18 41.3
19	10 12 23.31	4.17	11 48 35.9	0 26.3	1.478 1473	9753	18 25.6
23	10 12 27.48	6.17	+11 48 9.6	0 37.4	1.479 1226	9732	18 10.0
27	10 12 33.65	8.15	11 47 32.2	0 48.5	1.480 0958	9663	17 54.4
31	10 12 41.80	10.09	11 46 43.7	0 59.3	1.481 0621	9549	17 38.8
Juni 4	10 12 51.89	11.99	11 45 44.4	1 9.8	1.482 0170	9393	17 23.2
8	10 13 3.88	13.85	11 44 34.6	1 20.1	1.482 9563	9201	17 7.7
12	10 13 17.73		+11 43 14.5		1.483 8764		16 52.2

Tag		O^h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930		h m s	s	° ′ ″	′ ″			h m
Juni	12	10 13 17.73	15.64	+11 43 14.5	1 30.1	1.483 8764	8972	16 52.2
	16	10 13 33.37	17.39	11 41 44.4	1 39.7	1.484 7736	8709	16 36.7
	20	10 13 50.76	19.08	11 40 4.7	1 49.0	1.485 6445	8409	16 21.3
	24	10 14 9.84	20.71	11 38 15.7	1 58.2	1.486 4854	8073	16 5.9
	28	10 14 30.55	22.26	11 36 17.5	2 6.8	1.487 2927	7705	15 50.5
Juli	2	10 14 52.81	23.72	11 34 10.7	2 14.8	1.488 0632	7303	15 35.2
	6	10 15 16.53	25.08	+11 31 55.9	2 22.5	1.488 7935	6874	15 19.8
	10	10 15 41.61	26.37	11 29 33.4	2 29.5	1.489 4809	6425	15 4.5
	14	10 16 7.98	27.56	11 27 3.9	2 36.2	1.490 1234	5951	14 49.2
	18	10 16 35.54	28.67	11 24 27.7	2 42.3	1.490 7185	5453	14 34.0
	22	10 17 4.21	29.69	11 21 45.4	2 48.0	1.491 2638	4933	14 18.7
	26	10 17 33.90	30.59	11 18 57.4	2 53.1	1.491 7571	4390	14 3.5
	30	10 18 4.49	31.38	+11 16 4.3	2 57.5	1.492 1961	3831	13 48.3
Aug.	3	10 18 35.87	32.05	11 13 6.8	3 1.3	1.492 5792	3258	13 33.1
	7	10 19 7.92	32.63	11 10 5.5	3 4.5	1.492 9050	2676	13 17.9
	11	10 19 40.55	33.11	11 7 1.0	3 7.0	1.493 1726	2083	13 2.7
	15	10 20 13.66	33.47	11 3 54.0	3 9.0	1.493 3809	1482	12 47.5
	19	10 20 47.13	33.72	11 0 45.0	3 10.4	1.493 5291	871	12 32.3
	23	10 21 20.85	33.85	+10 57 34.6	3 11.1	1.493 6162	252	12 17.1
	27	10 21 54.70	33.86	10 54 23.5	3 11.1	1.493 6414	370	12 2.0
	31	10 22 28.56	33.75	10 51 12.4	3 10.3	1.493 6044	987	11 46.8
Sept.	4	10 23 2.31	33.51	10 48 2.1	3 9.0	1.493 5057	1603	11 31.7
	8	10 23 35.82	33.18	10 44 53.1	3 6.9	1.493 3454	2210	11 16.5
	12	10 24 9.00	32.74	10 41 46.2	3 4.3	1.493 1244	2814	11 1.3
	16	10 24 41.74	32.18	+10 38 41.9	3 1.0	1.492 8430	3413	10 46.1
	20	10 25 13.92	31.49	10 35 40.9	2 56.9	1.492 5017	4001	10 30.9
	24	10 25 45.41	30.69	10 32 44.0	2 52.2	1.492 1016	4577	10 15.7
	28	10 26 16.10	29.77	10 29 51.8	2 46.8	1.491 6439	5132	10 0.5
Okt.	2	10 26 45.87	28.75	10 27 5.0	2 40.7	1.491 1307	5668	9 45.3
	6	10 27 14.62	27.63	10 24 24.3	2 34.1	1.490 5639	6183	9 30.0
	10	10 27 42.25	26.40	+10 21 50.2	2 26.8	1.489 9456	6675	9 14.8
	14	10 28 8.65	25.08	10 19 23.4	2 19.0	1.489 2781	7147	8 59.5
	18	10 28 33.73	23.66	10 17 4.4	2 10.7	1.488 5634	7590	8 44.1
	22	10 28 57.39	22.13	10 14 53.7	2 1.6	1.487 8044	8002	8 28.8
	26	10 29 19.52	20.50	10 12 52.1	1 51.9	1.487 0042	8381	8 13.4
	30	10 29 40.02	18.82	10 11 0.2	1 41.9	1.486 1661	8721	7 58.0
Nov.	3	10 29 58.84	17.06	+10 9 18.3	1 31.6	1.485 2940	9023	7 42.6
	7	10 30 15.90	15.23	10 7 46.7	1 20.8	1.484 3917	9289	7 27.2
	11	10 30 31.13	13.34	10 6 25.9	1 9.7	1.483 4628	9517	7 11.7
	15	10 30 44.47	11.39	10 5 16.2	0 58.1	1.482 5111	9702	6 56.2
	19	10 30 55.86	9.38	10 4 18.1	0 46.3	1.481 5409	9841	6 40.6
	23	10 31 5.24		+10 3 31.8		1.480 5568		6 25.1

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1930	h m s	s	° ′ ″	′ ″			h m
Nov. 23	10 31 5.24		+10 3 31.8		1.480 5568		6 25.1
		7.35		0 34.3		9933	
27	10 31 12.59		10 2 57.5		1.479 5635		6 9.5
		5.28		0 22.1		9973	
Dez. 1	10 31 17.87		10 2 35.4		1.478 5662		5 53.8
		3.20		0 9.9		9963	
5	10 31 21.07		10 2 25.5		1.477 5699		5 38.1
		1.13		0 2.2		9910	
9	10 31 22.20		10 2 27.7		1.476 5789		5 22.4
		0.94		0 14.2		9809	
13	10 31 21.26		10 2 41.9		1.475 5980		5 6.7
		3.01		0 26.3		9656	
17	10 31 18.25		+10 3 8.2		1.474 6324		4 50.9
		5.06		0 38.2		9452	
21	10 31 13.19		10 3 46.4		1.473 6872		4 35.1
		7.07		0 49.9		9195	
25	10 31 6.12		10 4 36.3		1.472 7677		4 19.3
		9.02		1 1.2		8888	
29	10 30 57.10		10 5 37.5		1.471 8789		4 3.4
		10.91		1 11.9		8533	
33	10 30 46.19		+10 6 49.4		1.471 0256		3 47.5

Mittleres Äquinoktium 1925.0

MERKUR 1930

0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
1930					1930				
Jan. −3	9.5785	340° 28′	− 9′	−6° 27′	Juli 1	9.5175	24° 18′	− 9′	−2° 46′
+2	9.5442	3 10	−13	−4 54	6	9.4936	53 31	+ 3	+0 45
7	9.5120	29 32	− 8	−2 10	11	9.4887	84 53	+12	+4 16
12	9.4911	59 19	+ 5	+1 27	16	9.5051	115 36	+ 9	+6 30
17	9.4903	90 47	+13	+4 49	21	9.5354	143 15	− 3	+6 58
22	9.5100	121 4	+ 7	+6 43	26	9.5698	166 58	−11	+6 6
27	9.5418	148 0	− 5	+6 53	31	9.6018	187 11	−13	+4 32
Febr. 1	9.5761	171 0	−12	+5 51	Aug. 5	9.6283	204 46	− 9	+2 43
6	9.6072	190 40	−12	+4 12	10	9.6482	220 30	− 3	+0 51
11	9.6325	207 50	− 8	+2 22	15	9.6615	235 4	+ 3	−0 56
16	9.6512	223 18	− 2	+0 30	20	9.6682	248 59	+ 9	−2 35
21	9.6632	237 42	+ 5	−1 15	25	9.6683	262 43	+12	−4 4
26	9.6687	251 34	+10	−2 53	30	9.6619	276 42	+13	−5 19
März 3	9.6676	265 19	+12	−4 19	Sept. 4	9.6489	291 23	+10	−6 18
8	9.6600	279 24	+12	−5 32	9	9.6292	307 15	+ 4	−6 54
13	9.6457	294 15	+ 9	−6 27	14	9.6030	324 56	− 3	−6 57
18	9.6248	310 25	+ 3	−6 57	19	9.5712	345 8	−11	−6 12
23	9.5974	328 31	− 5	−6 52	24	9.5367	8 36	−13	−4 24
28	9.5647	349 16	−12	−5 57	29	9.5061	35 46	− 5	−1 25
April 2	9.5304	13 25	−12	−3 56	Okt. 4	9.4890	66 8	+ 8	+2 15
7	9.5015	41 16	− 3	−0 45	9	9.4930	97 36	+13	+5 23
12	9.4880	72 3	+10	+2 56	14	9.5163	127 17	+ 4	+6 54
17	9.4962	103 23	+12	+5 49	19	9.5493	153 21	− 7	+6 44
22	9.5220	132 29	+ 2	+6 59	24	9.5833	175 33	−12	+5 31
27	9.5558	157 48	− 8	+6 34	29	9.6133	194 36	−12	+3 49
Mai 2	9.5894	179 21	−13	+5 13	Nov. 3	9.6372	211 20	− 7	+1 57
7	9.6183	197 53	−11	+3 28	8	9.6544	226 31	0	+0 7
12	9.6409	214 17	− 6	+1 36	13	9.6650	240 46	+ 6	−1 37
17	9.6569	229 15	+ 1	−0 13	18	9.6690	254 33	+10	−3 12
22	9.6662	243 22	+ 7	−1 56	23	9.6665	268 21	+13	−4 36
27	9.6690	257 8	+11	−3 29	28	9.6574	282 33	+12	−5 45
Juni 1	9.6653	270 58	+13	−4 50	Dez. 3	9.6417	297 39	+ 8	−6 36
6	9.6550	285 18	+12	−5 56	8	9.6193	314 11	+ 1	−7 0
11	9.6380	300 38	+ 7	−6 42	13	9.5906	332 48	− 7	−6 45
16	9.6144	317 30	0	−7 0	18	9.5572	354 14	−12	−5 37
21	9.5846	336 35	− 8	−6 37	23	9.5233	19 11	−11	−3 20
26	9.5507	358 38	−13	−5 17	28	9.4969	47 48	0	+0 3
Juli 1	9.5175	24 18	− 9	−2 46	33	9.4879	78 57	+11	+3 40

$☊ = 47° 26'.5$; $i = 7° 0'.20$; $m = \frac{1}{6000000}$

Mittleres Äquinoktium 1925.0

0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
	VENUS 1930				**MARS 1930**			
1930		° ′	′	° ′		° ′	′	° ′
Jan. −3	9.86090	252 43.3	−0.3	+0 11.6	0.16570	264 15.4	+0.8	−1 4.1
+7	9.86153	268 34.6	+1.3	−0 44.4	0.16211	269 57.1	+0.9	−1 12.8
17	9.86199	284 23.9	+2.5	−1 37.0	0.15865	275 44.3	+0.9	−1 20.9
27	9.86225	300 12.4	+3.0	−2 22.1	0.15538	281 37.0	+0.9	−1 28.2
Febr. 6	9.86228	316 1.1	+2.6	−2 56.5	0.15233	287 35.0	+0.8	−1 34.7
16	9.86210	331 50.9	+1.4	−3 17.5	0.14955	293 37.8	+0.7	−1 40.3
26	9.86169	347 42.4	−0.2	−3 23.5	0.14708	299 45.1	+0.6	−1 44.8
März 8	9.86111	3 36.1	−1.7	−3 14.1	0.14494	305 56.3	+0.4	−1 48.1
18	9.86039	19 32.1	−2.8	−2 49.8	0.14319	312 10.9	+0.2	−1 50.2
28	9.85958	35 30.7	−3.0	−2 12.3	0.14184	318 28.2	0.0	−1 51.0
April 7	9.85876	51 32.0	−2.3	−1 24.4	0.14092	324 47.4	−0.2	−1 50.4
17	9.85797	67 36.2	−0.9	−0 29.7	0.14044	331 7.9	−0.4	−1 48.5
27	9.85729	83 43.4	+0.8	+0 27.4	0.14042	337 28.8	−0.5	−1 45.2
Mai 7	9.85677	99 53.5	+2.2	+1 22.6	0.14085	343 49.3	−0.7	−1 40.7
17	9.85645	116 6.3	+3.0	+2 11.3	0.14172	350 8.7	−0.8	−1 35.0
27	9.85636	132 20.9	+2.8	+2 49.6	0.14302	356 26.1	−0.9	−1 28.1
Juni 6	9.85650	148 36.2	+1.7	+3 14.4	0.14474	2 40.8	−0.9	−1 20.2
16	9.85687	164 51.0	+0.1	+3 23.6	0.14683	8 52.2	−0.9	−1 11.5
26	9.85743	181 3.7	−1.5	+3 16.6	0.14927	14 59.8	−0.8	−1 2.0
Juli 6	9.85814	197 13.0	−2.7	+2 54.2	0.15202	21 2.9	−0.7	−0 52.0
16	9.85894	213 18.2	−3.0	+2 18.1	0.15504	27 1.2	−0.6	−0 41.5
26	9.85976	229 18.8	−2.4	+1 31.5	0.15829	32 54.3	−0.5	−0 30.7
Aug. 5	9.86055	245 15.1	−1.1	+0 38.0	0.16172	38 42.0	−0.3	−0 19.8
15	9.86125	261 7.8	+0.5	−0 18.3	0.16530	44 24.1	−0.1	−0 8.8
25	9.86179	276 57.9	+2.0	−1 13.0	0.16897	50 0.6	0.0	+0 2.0
Sept. 4	9.86215	292 46.6	+2.9	−2 2.0	0.17271	55 31.3	+0.2	+0 12.7
14	9.86229	308 35.1	+2.9	−2 41.8	0.17648	60 56.4	+0.4	+0 23.0
24	9.86221	324 24.3	+2.1	−3 9.4	0.18024	66 15.9	+0.5	+0 33.0
Okt. 4	9.86190	340 15.0	+0.6	−3 22.6	0.18395	71 30.0	+0.6	+0 42.5
14	9.86140	356 7.7	−1.0	−3 20.5	0.18760	76 38.8	+0.7	+0 51.6
24	9.86074	12 2.6	−2.4	−3 3.0	0.19115	81 42.6	+0.8	+1 0.0
Nov. 3	9.85997	27 59.9	−3.0	−2 31.4	0.19457	86 41.6	+0.9	+1 7.9
13	9.85915	43 59.9	−2.7	−1 48.0	0.19786	91 36.0	+0.9	+1 15.2
23	9.85834	60 2.7	−1.6	−0 56.0	0.20098	96 26.1	+0.9	+1 21.8
Dez. 3	9.85760	76 8.5	0.0	+0 0.5	0.20392	101 12.2	+0.9	+1 27.7
13	9.85701	92 17.3	+1.6	+0 57.2	0.20667	105 54.6	+0.8	+1 33.0
23	9.85659	108 28.8	+2.7	+1 49.5	0.20922	110 33.6	+0.8	+1 37.6
33	9.85640	124 42.5	+3.0	+2 33.1	0.21155	115 9.5	+0.7	+1 41.5

Venus: $\Omega = 76^\circ\ 0'.3$; $i = 3^\circ\ 23'.63$; $m = \frac{1}{408000}$

Mars: $\Omega = 48^\circ\ 58'.7$; $i = 1^\circ\ 51'.01$; $m = \frac{1}{3093500}$

Mittleres Äquinoktium 1925.0

0h Welt-Zeit	log R	Länge	log r	Heliozentr. Länge	Red. auf d. Bahn	Heliozentr. Breite
	ERDE 1930		JUPITER 1930			
1930		° ′		° ′ ″	″	° ′ ″
Jan. −3	9.99272	95 43.2	0.704505	73 21 54.5	−21.3	−0 34 50.1
+7	9.99270	105 54.7	0.704774	74 14 25.8	−20.8	−0 33 45.4
17	9.99291	116 5.9	0.705046	75 6 53.1	−20.3	−0 32 40.4
27	9.99334	126 16.3	0.705320	75 59 16.4	−19.8	−0 31 35.1
Febr. 6	9.99396	136 25.2	0.705596	76 51 35.8	−19.2	−0 30 29.3
16	9.99477	146 32.0	0.705874	77 43 51.2	−18.6	−0 29 23.1
26	9.99574	156 36.4	0.706154	78 36 2.5	−18.0	−0 28 16.6
März 8	9.99683	166 37.9	0.706436	79 28 9.7	−17.4	−0 27 9.7
18	9.99801	176 36.3	0.706719	80 20 12.9	−16.8	−0 26 2.7
28	9.99924	186 31.3	0.707005	81 12 12.0	−16.2	−0 24 55.3
April 7	0.00048	196 23.0	0.707292	82 4 7.0	−15.5	−0 23 47.7
17	0.00171	206 11.3	0.707581	82 55 57.7	−14.8	−0 22 39.8
27	0.00288	215 56.3	0.707871	83 47 44.3	−14.1	−0 21 31.7
Mai 7	0.00395	225 38.4	0.708163	84 39 26.9	−13.4	−0 20 23.4
17	0.00491	235 17.7	0.708456	85 31 5.1	−12.7	−0 19 14.9
27	0.00573	244 54.6	0.708750	86 22 39.2	−12.0	−0 18 6.3
Juni 6	0.00638	254 29.6	0.709046	87 14 9.1	−11.3	−0 16 57.5
16	0.00685	264 3.1	0.709343	88 5 34.7	−10.5	−0 15 48.6
26	0.00712	273 35.6	0.709641	88 56 56.1	− 9.8	−0 14 39.6
Juli 6	0.00719	283 7.7	0.709940	89 48 13.2	− 9.0	−0 13 30.5
16	0.00705	292 39.9	0.710240	90 39 26.0	− 8.3	−0 12 21.2
26	0.00672	302 12.7	0.710541	91 30 34.6	− 7.5	−0 11 11.9
Aug. 5	0.00620	311 46.6	0.710843	92 21 39.0	− 6.8	−0 10 2.5
15	0.00550	321 22.1	0.711146	93 12 39.1	− 6.0	−0 8 53.1
25	0.00463	330 59.7	0.711449	94 3 34.9	− 5.2	−0 7 43.7
Sept. 4	0.00363	340 39.8	0.711753	94 54 26.4	− 4.4	−0 6 34.3
14	0.00252	350 22.8	0.712057	95 45 13.7	− 3.7	−0 5 24.9
24	0.00133	0 8.8	0.712362	96 35 56.7	− 2.9	−0 4 15.6
Okt. 4	0.00010	9 58.2	0.712667	97 26 35.4	− 2.1	−0 3 6.3
14	9.99885	19 50.9	0.712973	98 17 9.9	− 1.3	−0 1 56.9
24	9.99763	29 47.0	0.713279	99 7 40.1	− 0.5	−0 0 47.7
Nov. 3	9.99648	39 46.4	0.713585	99 58 6.1	+ 0.3	+0 0 21.5
13	9.99542	49 48.8	0.713892	100 48 27.8	+ 1.1	+0 1 30.5
23	9.99450	59 54.0	0.714198	101 38 45.2	+ 1.9	+0 2 39.5
Dez. 3	9.99374	70 1.6	0.714504	102 28 58.4	+ 2.6	+0 3 48.2
13	9.99317	80 11.0	0.714811	103 19 7.3	+ 3.4	+0 4 56.8
23	9.99281	90 21.7	0.715117	104 9 12.0	+ 4.2	+0 6 5.2
33	9.99267	100 33.1	0.715423	104 59 12.4	+ 5.0	+0 7 13.6

$m = \frac{1}{329\,390}$ $\quad$ $\Omega = 99°41'52''.2;\ i = 1°18'26''.4;\ m = \frac{1}{1047.35}$

Mittleres Äquinoktium 1925.0

SATURN 1930

0h Welt-Zeit	log r	Heliozentr. Länge	Red. auf die Bahn	Heliozentr. Breite
1929 Nov. 28	1.002024	272° 1′ 49.″8	−65.″2	+0° 53′ 30.″6
1930 Jan. 7	1.002014	273 13 58.9	−62.1	+0 50 34.1
Febr. 16	1.001994	274 26 8.1	−58.8	+0 47 36.4
März 28	1.001963	275 38 17.6	−55.5	+0 44 37.6
Mai 7	1.001922	276 50 27.6	−52.1	+0 41 37.4
Juni 16	1.001870	278 2 38.4	−48.6	+0 38 36.0
Juli 26	1.001808	279 14 50.3	−45.0	+0 35 33.5
Sept. 4	1.001734	280 27 3.4	−41.3	+0 32 30.0
Okt. 14	1.001650	281 39 17.9	−37.6	+0 29 25.5
1930 Nov. 23	1.001556	282 51 34.0	−33.7	+0 26 20.1
1931 Jan. 2	1.001451	284 3 52.0	−29.9	+0 23 14.1

$☊ = 113° 0′ 20″.6$; $i = 2° 29′ 28″.7$; $m = \frac{1}{3501.6}$

URANUS 1930

0h Welt-Zeit	log r	Heliozentr. Länge	Red. auf die Bahn	Heliozentr. Breite
1929 Nov. 28	1.301877	9° 55′ 34.″5	− 7.″5	−0° 41′ 34.″7
1930 Jan. 7	1.301817	10 21 24.1	− 7.5	−0 41 25.3
Febr. 16	1.301755	10 47 14.0	− 7.6	−0 41 15.9
März 28	1.301693	11 13 4.3	− 7.7	−0 41 6.4
Mai 7	1.301629	11 38 54.8	− 7.8	−0 40 56.7
Juni 16	1.301564	12 4 45.7	− 7.9	−0 40 46.7
Juli 26	1.301497	12 30 36.9	− 7.9	−0 40 36.7
Sept. 4	1.301430	12 56 28.4	− 8.0	−0 40 26.6
Okt. 14	1.301361	13 22 20.2	− 8.1	−0 40 16.2
1930 Nov. 23	1.301291	13 48 12.3	− 8.2	−0 40 5.8
1931 Jan. 2	1.301220	14 14 4.8	− 8.2	−0 39 55.2

$☊ = 73° 37′$; $i = 0° 46′ 22″$; $m = \frac{1}{22869}$

NEPTUN 1930

0h Welt-Zeit	log r	Heliozentr. Länge	Red. auf die Bahn	Heliozentr. Breite
1929 Nov. 28	1.479208	151° 37′ 42.″4	+32.″8	+0° 37′ 39.″8
1930 Jan. 7	1.479227	151 51 59.1	+33.1	+0 38 4.6
Febr. 16	1.479245	152 6 15.8	+33.4	+0 38 29.4
März 28	1.479262	152 20 32.6	+33.7	+0 38 54.1
Mai 7	1.479280	152 34 49.4	+34.0	+0 39 18.8
Juni 16	1.479298	152 49 6.3	+34.3	+0 39 43.5
Juli 26	1.479316	153 3 23.3	+34.6	+0 40 8.1
Sept. 4	1.479333	153 17 40.2	+34.9	+0 40 32.7
Okt. 14	1.479350	153 31 57.2	+35.2	+0 40 57.2
1930 Nov. 23	1.479368	153 46 14.2	+35.5	+0 41 21.7
1931 Jan. 2	1.479384	154 0 31.2	+35.8	+0 41 46.2

$☊ = 130° 57′$; $i = 1° 46′ 37″$; $m = \frac{1}{19314}$

Mittlere und Scheinbare Sternörter 1930

Reduktionsgrößen

Mittlere Sternörter 1930.0

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
905	[2 Ceti]	4.62	A 0	0 0 9.295	+3.0738	+ 12	−17 43 32.35	+20.040	− 4
1	α Androm.	2.15	A 0 p	0 4 45.896	+3.0988	+ 107	+28 42 14.41	+19.879	− 161
2	β Cassiopeiae	2.42	F 5	0 5 25.829	+3.1928	+ 677	+58 45 49.30	+19.859	− 180
3	ε Phoenicis	3.94	K 0	0 5 51.716	+3.0473	+ 99	−46 8 1.79	+19.845	− 192
4	[22 Androm.]	5.08	F 0	0 6 40.486	+3.1135	+ 8	+45 40 57.72	+20.033	− 3
5	[κ² Sculptoris]	5.56	K 0	0 8 1.299	+3.0482	+ 4	−28 11 23.43	+20.038	+ 6
6	[ϑ Sculptoris]	5.19	F 5	0 8 10.555	+3.0492	+ 104	−35 31 29.99	+20.155	+ 124
7	γ Pegasi	2.87	B 2	0 9 37.708	+3.0878	+ 1	+14 47 39.74	+20.013	− 14
8	[Br. 6]	6.23	B 9	0 12 13.870	+3.3780	+ 68	+76 33 42.85	+20.017	+ 1
9	ι Ceti	3.75	K 0	0 15 51.680	+3.0564	− 15	− 9 12 42.92	+19.964	− 32
10	ζ Tucanae	4.34	F 8	0 16 26.037	+3.1344	+2695	−65 17 10.58	+21.147	+1154
11	β Hydri	2.90	G 0	0 22 6.095	+3.1794	+6941	−77 38 54.44	+20.269	+ 318
12	α Phoenicis	2.44	K 0	0 22 49.600	+2.9671	+ 168	−42 41 10.58	+19.536	− 409
13	12 Ceti	6.04	K 5	0 26 27.986	+3.0619	+ 8	− 4 20 38.27	+19.903	− 8
14	[Ceti 49 G.]	5.23	A 3	0 26 52.753	+3.0002	− 25	−24 10 29.67	+19.916	+ 9
15	[λ¹ Phoenicis]	4.88	A 2	0 28 2.565	+2.8963	+ 123	−49 11 26.35	+19.906	+ 12
16	[κ Cassiop.]	4.24	B 0	0 29 0.353	+3.3987	+ 11	+62 32 44.50	+19.887	+ 3
17	ζ Cassiopeiae	3.72	B 3	0 33 3.617	+3.3349	+ 23	+53 30 42.79	+19.829	− 7
18	π Androm.	4.44	B 3	0 33 8.199	+3.2012	+ 17	+33 20 3.23	+19.835	0
19	[ε Androm.]	4.52	G 5	0 34 51.094	+3.1675	− 173	+28 55 54.84	+19.562	− 251
20	δ Androm.	3.49	K 2	0 35 34.763	+3.2051	+ 106	+30 28 41.64	+19.720	− 84
21	α Cassiopeiae	2.47	K 0	0 36 31.326	+3.3951	+ 60	+56 9 13.34	+19.761	− 29
22	β Ceti	2.24	K 0	0 40 4.587	+3.0117	+ 160	−18 22 14.15	+19.777	+ 39
23	[η Phoenicis]	4.53	A 0	0 40 12.910	+2.7023	+ 5	−57 50 49.48	+19.728	− 8
25	ο Cassiopeiae	4.70	B 2	0 40 48.911	+3.3371	+ 22	+47 54 5.39	+19.719	− 8
26	[λ² Sculptoris]	5.97	K 0	0 40 49.072	+2.9003	+ 178	−38 48 26.13	+19.842	+ 114
24	21 Cassiopeiae	5.59	A 2	0 40 59.422	+3.9305	− 57	+74 36 20.62	+19.702	− 23
27	ζ Androm.	4.30	K 0	0 43 37.420	+3.1773	− 75	+23 53 11.92	+19.604	− 79
28	[δ Piscium]	4.55	K 5	0 45 2.892	+3.1111	+ 52	+ 7 12 15.77	+19.613	− 46
31	[λ Hydri]	4.96	K 5	0 46 10.323	+2.0931	+ 397	−75 18 15.54	+19.612	− 27
29	[Br. 82]	5.45	F 2 + A 2	0 46 27.730	+3.6272	+ 59	+63 52 0.58	+19.629	− 5
30	[19 Ceti]	5.24	F 5	0 46 37.222	+3.0044	− 159	−11 1 15.71	+19.409	− 223
34	[λ² Tucanae]	5.34	K 0	0 52 23.500	+2.2418	− 33	−69 54 19.68	+19.478	− 45
32	γ Cassiopeiae	2.25	B 0 p	0 52 28.071	+3.6091	+ 37	+60 20 16.95	+19.517	− 4
33	μ Androm.	3.94	A 2	0 52 51.643	+3.3255	+ 129	+38 7 12.14	+19.549	+ 36
35	α Sculptoris	4.39	B 5	0 55 13.996	+2.8902	− 5	−29 44 8.32	+19.460	− 5
36	ε Piscium	4.45	K 0	0 59 18.472	+3.1125	− 55	+ 7 30 49.23	+19.407	+ 30
37	[26 Ceti]	6.07	F 0	1 0 12.789	+3.0870	+ 81	+ 0 59 31.00	+19.317	− 39
38	β Phoenicis	3.35	K 0	1 2 57.658	+2.6773	− 56	−47 5 36.68	+19.277	− 15
39	[ι Tucanae]	5.32	K 0	1 4 32.544	+2.3801	+ 100	−62 8 55.84	+19.251	− 4

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
40	[η Ceti]	3.60	K 0	1 5 4.045	+3.0169	+ 137	−10 33 10.60	+19.110	−132
42	β Androm.	2.37	M a	1 5 48.369	+3.3555	+ 151	+35 14 59.60	+19.111	−113
41	[44 H. Cephei]	5.68	A 0	1 6 9.261	+5.1199	+ 334	+79 18 7.63	+19.224	+ 9
43	[τ Piscium]	4.70	K 0	1 7 47.968	+3.3008	+ 56	+29 43 5.98	+19.132	− 41
44	[Sculpt. 102 G.]	5.91	A 5	1 9 31.888	+2.7623	+ 39	−38 13 37.58	+19.102	− 27
45	υ Piscium	4.67	A 2	1 15 36.804	+3.2940	+ 15	+26 53 47.74	+18.952	− 11
47	ϑ Ceti	3.83	K 0	1 20 31.427	+2.9983	− 55	− 8 32 38.78	+18.606	−214
46	[ψ Cassiop.]	4.96	K 0	1 20 57.708	+4.2173	+ 135	+67 45 55.36	+18.839	+ 32
48	δ Cassiopeiae	2.80	A 5	1 21 13.173	+3.9118	+ 398	+59 52 19.70	+18.755	− 43
49	[γ Phoenicis]	3.40	K 5	1 25 19.547	+2.6049	− 38	−43 40 35.75	+18.453	−218
50	η Piscium	3.72	G 5	1 27 44.026	+3.2080	+ 15	+14 59 7.53	+18.586	− 7
51	40 Cassiopeiae	5.50	K 0	1 32 52.957	+4.7608	− 20	+72 41 3.01	+18.415	− 6
53	[Hydri 14 G.]	6.06	G 5	1 33 10.125	+0.3825	− 70	−78 51 36.24	+18.283	−128
52	υ Persei	3.77	K 0	1 33 41.073	+3.6749	+ 64	+48 16 27.12	+18.280	−113
54	α Eridani	0.60	B 5	1 35 6.607	+2.2363	+ 122	−57 35 31.35	+18.305	− 38
55	43 Cassiopeiae	5.54	A 0 p	1 37 7.728	+4.4209	+ 88	+67 41 23.51	+18.269	− 2
56	[ν Piscium]	4.68	K 0	1 37 47.169	+3.1209	− 16	+ 5 8 2.05	+18.249	+ 2
58	[Sculpt. 129 G.]	5.64	A 0	1 38 57.790	+2.6429	− 57	−37 11 6.06	+18.181	− 23
57	φ Persei	4.19	B 0 p	1 39 15.662	+3.7519	+ 26	+50 20 12.45	+18.179	− 15
59	τ Ceti	3.65	K 0	1 40 48.952	+2.7870	−1195	−16 18 20.42	+18.988	+852
60	ο Piscium	4.50	K 0	1 41 41.656	+3.1664	+ 47	+ 8 48 21.70	+18.153	+ 50
61	Lac. ε Sculpt.	5.39	F 0	1 42 21.994	+2.8087	+ 99	−25 24 8.06	+18.003	− 75
62	ζ Ceti	3.92	K 0	1 48 0.251	+2.9607	+ 22	−10 40 49.02	+17.826	− 34
64	α Trianguli	3.58	F 5	1 49 5.122	+3.4168	+ 11	+29 14 18.69	+17.583	−233
63	ε Cassiopeiae	3.44	B 3	1 49 20.255	+4.2993	+ 50	+63 19 34.62	+17.791	− 15
65	ξ Piscium	4.84	K 0	1 49 55.767	+3.1048	+ 13	+ 2 50 33.03	+17.802	+ 19
66	β Arietis	2.72	A 5	1 50 46.092	+3.3112	+ 65	+20 27 59.58	+17.640	−109
67	ψ Phoenicis	4.41	M b	1 50 50.432	+2.4053	− 94	−46 38 42.88	+17.644	−101
69	[η² Hydri]	4.72	K 0	1 53 9.500	+1.5180	+ 119	−67 59 28.66	+17.730	+ 79
68	χ Eridani	3.73	G 5	1 53 14.008	+2.3342	+ 712	−51 57 25.85	+17.917	+270
72	α Hydri	3.02	F 0	1 56 33.808	+1.8897	+ 361	−61 54 36.58	+17.528	+ 21
71	υ Ceti	4.18	M a	1 56 42.398	+2.8265	+ 91	−21 24 58.88	+17.487	− 14
70	50 Cassiopeiae	4.06	A 2	1 57 25.028	+5.0899	− 91	+72 5 1.33	+17.495	+ 25
73	γ Androm.	2.28 5.08	K 0 A 0	1 59 35.609	+3.6768	+ 43	+41 59 40.52	+17.323	− 54
74	α Arietis	2.23	K 2	2 3 13.322	+3.3790	+ 137	+23 7 56.16	+17.073	−143
75	β Trianguli	3.08	A 5	2 5 22.262	+3.5656	+ 122	+34 39 25.28	+17.079	− 40
77	[6 Persei]	5.40	K 0	2 8 56.252	+3.9818	+ 368	+50 44 29.63	+16.786	−169
76	55 Cassiopeiae	6.15	F 5 + A 2	2 8 57.802	+4.6880	− 10	+66 11 51.07	+16.956	+ 3
78	Lac. μ Forn.	5.24	A 0	2 9 49.560	+2.6424	+ 13	−31 3 5.95	+16.915	+ 2
79	[γ Trianguli]	4.07	A 0	2 13 8.755	+3.5625	+ 37	+33 31 27.91	+16.712	− 44

Mittlere Sternörter 1930.0

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
80	67 Ceti	5.70	G 5	2 13 29.422	+2.9914	+ 55	− 6 44 38.54	+16.630	−110
82	[φ Eridani]	3.78	B 8	2 14 0.470	+2.1425	+ 81	−51 50 9.04	+16.678	− 36
81	[ϑ Arietis]	5.69	A 0	2 14 13.646	+3.3346	− 10	+19 34 41.29	+16.702	− 2
83	[κ Fornacis]	5.37	F 5	2 19 20.363	+2.7451	+ 142	−24 8 1.69	+16.390	− 63
84	[λ Horologii]	5.47	F 2	2 22 56.419	+1.6769	− 95	−60 37 29.70	+16.133	−137
86	[κ Eridani]	4.44	B 5	2 24 25.074	+2.1976	− 2	−48 1 3.58	+16.172	− 23
85	ξ² Ceti	4.34	A 0	2 24 26.057	+3.1882	+ 26	+ 8 8 49.76	+16.190	− 4
88	[λ¹ Fornacis]	5.88	K 0	2 30 11.777	+2.4993	− 43	−34 57 26.63	+15.860	− 32
87	36 H. Cassiop.	5.34	K 0	2 31 20.096	+5.6686	− 60	+72 30 49.35	+15.852	+ 21
90	μ Hydri	5.29	K 0	2 33 6.695	−1.3098	+ 470	−79 24 53.86	+15.702	− 33
89	ν Arietis	5.36	A 2	2 34 50.195	+3.4039	− 9	+21 39 34.82	+15.625	− 16
91	δ Ceti	4.04	B 2	2 35 53.538	+3.0740	+ 7	+ 0 1 38.61	+15.581	− 2
95	[ε Hydri]	4.26	B 9	2 38 30.378	+0.9187	+ 168	−68 33 59.90	+15.443	+ 5
92	[Br. 366]	5.84	A 2	2 38 46.500	+5.1388	+ 25	+67 31 43.35	+15.395	− 29
94	[35 Arietis]	4.58	B 3	2 39 20.297	+3.5172	+ 4	+27 24 37.19	+15.385	− 7
93	ϑ Persei	4.22	F 8	2 39 24.449	+4.0903	+ 346	+48 56 0.70	+15.299	− 89
96	[γ Ceti]	3.58	A 2	2 39 40.255	+3.1071	− 98	+ 2 56 30.05	+15.225	−148
97	π Ceti	4.39	B 5	2 40 47.406	+2.8546	− 8	−14 9 15.47	+15.301	− 9
98	μ Ceti	4.36	F 0	2 41 9.284	+3.2413	+ 189	+ 9 49 10.28	+15.259	− 31
99	[η Persei]	3.93	K 0	2 45 34.567	+4.3664	+ 28	+55 36 22.64	+15.026	− 11
100	41 Arietis	3.68	B 8	2 45 51.479	+3.5283	+ 51	+26 58 23.00	+14.907	−113
101	β Fornacis	4.50	K 0	2 46 9.616	+2.5103	+ 63	−32 41 57.00	+15.162	+159
102	τ² Eridani	4.81	K 0	2 47 51.766	+2.7208	− 39	−21 17 30.96	+14.874	− 29
103	τ Persei	4.06	G 0 + A 5	2 49 16.911	+4.2447	+ 3	+52 28 38.29	+14.819	− 2
104	η Eridani	4.05	K 0	2 53 0.382	+2.9302	+ 52	− 9 10 33.17	+14.381	−218
106	ϑ Eridani	3.42 4.42	A 2	2 55 36.292	+2.2724	− 67	−40 35 3.79	+14.470	+ 28
105	47 H. Cephei	5.66	M a	2 56 42.064	+7.9176	− 113	+79 8 40.81	+14.398	+ 22
107	α Ceti	2.82	M a	2 58 37.053	+3.1346	− 9	+ 3 48 57.88	+14.182	− 76
108	γ Persei	3.08	F 5 + A 3	2 59 42.810	+4.3361	+ 2	+53 14 1.21	+14.187	− 4
109	*ρ Persei	var.	M b	3 0 40.995	+3.8401	+ 114	+38 34 13.01	+14.028	−103
110	μ Horologii	5.16	F 0	3 1 57.582	+1.4100	− 117	−60 0 31.97	+13.984	− 68
113	[ϑ Hydri]	5.52	B 8	3 2 5.824	+0.1125	+ 51	−72 10 32.58	+14.065	+ 22
111	*β Persei	var.	B 8	3 3 36.376	+3.8987	+ 7	+40 41 14.04	+13.947	− 1
112	[ι Persei]	4.17	G 0	3 4 0.237	+4.3220	+1296	+49 20 50.07	+13.840	− 84
114	δ Arietis	4.53	K 0	3 7 37.319	+3.4283	+ 106	+19 27 47.25	+13.690	− 4
117	12 Eridani	3.95	F 8	3 9 5.757	+2.5470	+ 241	−29 15 43.96	+14.244	+644
116	[94 Ceti]	5.14	F 8	3 9 12.013	+3.0616	+ 136	− 1 27 24.90	+13.532	− 62
118	[Horol. 38 G.]	5.72	N a	3 10 46.494	+1.5161	− 5	−57 35 0.15	+13.485	− 6
115	48 H. Cephei	5.50	F 0	3 11 22.086	+7.5521	+ 183	+77 28 48.90	+13.409	− 44
119	[e Eridani]	4.30	G 5	3 17 7.959	+2.3958	+2786	−43 20 12.91	+13.806	+731

Nr. 109. Größe: Max. 3.3, Min. 4.1 Nr. 111. Größe: Max. 2.3, Min. 3.5

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
120	α Persei	1.90	F 5	3 19 18.875	+4.2761	+ 29	+49 36 48.51	+12.904	— 26
121	o Tauri	3.80	G 5	3 21 2.609	+3.2273	— 44	+ 8 47 0.98	+12.738	— 76
123	[ξ Tauri]	3.75	B 8	3 23 22.347	+3.2500	+ 39	+ 9 29 22.64	+12.612	— 45
122	2 H. Camelop.	4.42	B 9 p	3 23 23.047	+4.8460	— 1	+59 41 53.40	+12.663	+ 6
124	[σ Persei]	4.55	K 0	3 25 37.795	+4.2239	+ 9	+47 45 18.27	+12.526	+ 23
125	f Tauri	4.28	K 0	3 27 0.306	+3.3106	+ 13	+12 41 52.30	+12.404	— 5
126	[κ Reticuli]	4.80	F 5	3 28 8.825	+1.0401	+514	—63 11 2.64	+12.691	+361
127	ε Eridani	3.81	K 0	3 29 37.890	+2.8263	—658	— 9 41 39.51	+12.241	+ 13
128	[Horol. 45 G.]	5.60	K 0	3 30 29.225	+1.7843	+ 48	—50 36 55.94	+12.249	+ 80
130	[y Eridani]	4.58	K 0	3 34 34.889	+2.1520	— 16	—40 30 12.50	+11.858	— 24
129	[Grb 716]	5.32	M a	3 36 3.736	+5.1922	— 21	+62 59 30.29	+11.800	+ 22
131	δ Persei	3.10	B 5	3 37 55.916	+4.2659	+ 33	+47 33 54.90	+11.609	— 35
133	[δ Fornacis]	4.93	B 5	3 39 27.792	+2.3853	— 5	—32 9 40.47	+11.543	+ 7
135	[δ Eridani]	3.72	K 0	3 39 53.613	+2.8736	— 64	— 9 59 57.45	+12.252	+747
132	[o Persei]	3.94	B 1	3 39 55.424	+3.7593	+ 8	+32 4 3.98	+11.486	— 17
134	ν Persei	3.93	F 5	3 40 25.863	+4.0717	— 6	+42 21 31.93	+11.461	— 5
136	[17 Tauri]	3.81	B 5 p	3 40 42.875	+3.5606	+ 17	+23 53 40.44	+11.402	— 44
137	[24 Eridani]	5.09	B 8	3 40 57.067	+3.0465	+ 1	— 1 22 58.26	+11.420	— 8
138	5 H. Camelop.	4.67	A 0	3 42 56.207	+6.3061	+ 42	+71 7 8.03	+11.246	— 40
141	β Reticuli	3.80	K 0	3 43 18.919	+0.7467	+477	—65 1 37.66	+11.319	+ 61
139	η Tauri	2.96	B 5 p	3 43 19.165	+3.5644	+ 17	+23 53 23.84	+11.210	— 48
140	τ[6] Eridani	4.33	F 8	3 43 50.101	+2.5801	—123	—23 27 19.63	+10.701	—519
142	[27 Tauri]	3.80	B 8	3 44 59.741	+3.5653	+ 14	+23 50 26.46	+11.091	— 45
143	g Eridani	4.24	K 0	3 46 50.056	+2.2451	— 40	—36 24 41.18	+10.951	— 52
146	γ Hydri	3.17	M a	3 48 18.198	—0.9467	+124	—74 27 14.41	+11.004	+109
144	ζ Persei	2.91	B 1	3 49 43.621	+3.7689	+ 11	+31 40 37.74	+10.779	— 11
145	*9 H. Camelop.	5.22	K 0 + A 0	3 51 9.182	+5.1044	— 3	+60 54 20.35	+10.668	— 16
147	ε Persei	2.96	B 1	3 53 9.009	+4.0226	+ 23	+39 48 33.03	+10.507	— 29
148	ξ Persei	4.05	Oe 5	3 54 25.071	+3.8902	+ 10	+35 35 28.06	+10.433	— 8
149	γ Eridani	3.19	K 5	3 54 45.739	+2.7987	+ 42	—13 42 23.95	+10.304	—112
150	*λ Tauri	var.	B 3	3 56 47.947	+3.3226	— 5	+12 17 37.62	+10.250	— 13
151	ν Tauri	3.94	A 0	3 59 25.829	+3.1906	+ 4	+ 5 47 46.34	+10.055	— 10
153	[Erid. 174 G.]	5.57	A 5	4 2 44.269	+2.4723	+148	—27 50 32.43	+ 9.922	+108
152	c Persei	4.03	B 3 p	4 3 34.338	+4.3515	+ 33	+47 31 38.11	+ 9.718	— 32
154	o[1] Eridani	4.14	F 2	4 8 26.839	+2.9282	+ 8	— 7 1 8.41	+ 9.457	+ 82
155	α Horologii	3.83	K 0	4 11 40.778	+1.9859	+ 20	—42 27 58.83	+ 8.906	—219
156	α Reticuli	3.36	G 5	4 13 31.067	+0.7684	+ 50	—62 38 55.37	+ 9.028	+ 47
157	[γ Doradus]	4.36	F 5	4 14 11.340	+1.5689	+ 89	—51 39 45.84	+ 9.101	+172
160	υ[4] Eridani	3.59	B 9	4 15 14.606	+2.2687	+ 37	—33 58 6.40	+ 8.834	— 12
159	[γ Tauri]	3.86	K 0	4 15 48.422	+3.4131	+ 82	+15 27 35.50	+ 8.773	— 29

Nr. 145. Doppelstern, Größe der Komponenten: 5.0 und 8.2

Nr. 150. Größe: Max. 3.3, Min. 4.2

Mittlere Sternörter 1930.0

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
158	[54 Persei]	5.10	G 5	4 15 51.627	+3.8931	— 20	+34 23 57.35	+8.792	— 6
161	[Erid. 212 G.]	5.31	A 0	4 17 35.830	+2.6186	+ 36	—20 48 19.08	+8.676	+ 15
162	δ Tauri	3.93	K 0	4 18 53.711	+3.4589	+ 78	+17 22 46.83	+8.527	— 31
163	[η Reticuli]	5.18	K 0	4 21 7.650	+0.6454	+127	—63 33 8.70	+8.541	+160
166	[δ Mensae]	5.62	K 0 p	4 22 39.682	—4.1002	+ 99	—80 22 45.89	+8.331	+ 71
164	ε Tauri	3.63	K 0	4 24 31.597	+3.5023	+ 80	+19 1 35.74	+8.075	— 35
165	*[1 Camel. seq.]	5.42	B 1	4 26 28.661	+4.7470	+ 7	+53 45 38.14	+7.955	0
167	[δ Caeli]	5.16	B 3	4 28 41.360	+1.8363	— 6	—45 6 12.35	+7.760	— 17
168	α Tauri	1.06	K 5	4 31 54.093	+3.4416	+ 48	+16 22 11.85	+7.328	—189
171	α Doradus	3.47	A 0 p	4 32 29.017	+1.2966	+ 71	—55 11 20.38	+7.473	+ 3
169	ν Eridani	4.12	B 2	4 32 49.206	+2.9974	+ 2	— 3 29 39.80	+7.438	— 4
170	[υ² Eridani]	3.88	K 0	4 32 49.665	+2.3315	— 46	—30 42 16.58	+7.436	— 6
172	53 Eridani	3.98	K 0	4 34 58.395	+2.7468	— 54	—14 26 23.41	+7.103	—164
174	τ Tauri	4.33	B 5	4 38 2.476	+3.6002	+ 5	+22 49 26.69	+6.997	— 19
173	Grb 848	6.04	F 0	4 39 22.823	+8.0472	+105	+75 49 1.51	+6.773	—134
176	[μ Eridani]	4.18	B 5	4 42 0.079	+2.9998	+ 13	— 3 22 54.27	+6.679	— 12
175	4 Camelop.	5.35	A 2	4 42 9.837	+4.9923	+ 60	+56 38 5.67	+6.531	—146
177	[μ Mensae]	5.69	B 9	4 43 45.331	—0.6059	+ 17	—71 3 34.69	+6.574	+ 28
178	9 Camelop.	4.38	B 0	4 47 4.644	+5.9547	+ 5	+66 13 34.70	+6.280	+ 10
179	[π⁴ Orionis]	3.78	B 3	4 47 28.575	+3.1949	0	+ 5 29 11.81	+6.230	— 7
180	π⁵ Orionis	3.87	B 3	4 50 36.215	+3.1246	— 2	+ 2 19 38.21	+5.974	— 3
181	ι Aurigae	2.90	K 2	4 52 25.932	+3.9061	+ 10	+33 3 24.77	+5.804	— 20
183	*ε Aurigae	var.	F 5 p	4 56 56.508	+4.3034	+ 6	+43 43 17.14	+5.432	— 14
182	10 Camelop.	4.22	G 0 p	4 57 10.985	+5.3320	— 1	+60 20 31.93	+5.414	— 12
184	ι Tauri	4.70	A 5	4 58 54.593	+3.5858	+ 53	+21 29 29.33	+5.237	— 43
185	η Aurigae	3.28	B 3	5 1 36.158	+4.2059	+ 33	+41 8 29.55	+4.981	— 71
186	ε Leporis	3.29	K 5	5 2 29.840	+2.5397	+ 20	—22 27 50.25	+4.909	— 68
187	[η² Pictoris]	4.92	K 5	5 3 8.967	+1.5505	+ 35	—49 40 18.62	+4.927	+ 6
189	[ζ Doradus]	4.76	F 8	5 4 18.380	+1.0246	— 70	—57 34 4.78	+4.926	+103
188	β Eridani	2.92	A 3	5 4 24.461	+2.9495	— 59	— 5 10 32.48	+4.735	— 79
190	[λ Eridani]	4.34	B 2	5 5 47.747	+2.8711	+ 3	— 8 50 33.53	+4.693	— 4
192	μ Aurigae	4.78	A 3	5 8 38.120	+4.1043	— 13	+38 24 11.79	+4.376	— 79
191	19 H. Camelop.	5.16	F 8	5 10 58.999	+9.8581	—311	+79 9 17.96	+4.415	+161
194	β Orionis	0.34	B 8 p	5 11 10.365	+2.8830	+ 2	— 8 16 52.62	+4.238	0
193	α Aurigae	0.21	G 0	5 11 30.883	+4.4309	+ 84	+45 55 43.23	+3.781	—428
196	ϑ Doradus	4.78	K 0	5 13 48.382	—0.0500	+ 14	—67 15 50.60	+4.051	+ 39
195	[τ Orionis]	3.68	B 5	5 14 12.391	+2.9128	— 12	— 6 55 7.71	+3.972	— 7
197	[o Columbae]	4.91	K 0	5 14 57.516	+2.1628	+ 63	—34 57 45.37	+3.585	—329
198	[Columb. 12 G.]	5.75	A 0	5 16 36.284	+2.3922	+ 8	—27 26 23.46	+3.761	— 11
199	[ζ Pictoris]	5.52	F 8	5 17 38.969	+1.4701	+ 9	—50 40 50.02	+3.910	+227

Nr 165. Doppelstern, Größe der Komponenten: 5.86 und 6.61. Nr. 183. Größe: Max. 3.4, Min. 4.1

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
200	[η Orion. med.]	3.44	B 1	5 20 57.423	+3.0168	+ 5	− 2 27 36.82	+3.399	+ 1
201	γ Orionis	1.70	B 2	5 21 22.541	+3.2178	− 3	+ 6 17 15.13	+3.342	− 20
202	β Tauri	1.78	B 8	5 21 51.928	+3.7924	+ 25	+28 32 59.80	+3.143	−177
203	17 Camelop.	5.75	K 5	5 23 33.169	+5.6633	− 3	+63 0 40.28	+3.173	− 1
204	[β Leporis]	2.96	G 0	5 25 14.764	+2.5711	+ 4	−20 48 51.26	+2.935	− 93
206	δ Orionis	2.48 6.87	B 0	5 28 25.763	+3.0648	0	− 0 20 58.74	+2.751	− 2
207	α Leporis	2.69	F 0	5 29 38.532	+2.6460	+ 2	−17 52 16.62	+2.650	+ 2
205	Grb 966	6.36	K 5	5 30 21.209	+8.0178	− 8	+75 0 3.22	+2.605	+ 20
208	[φ¹ Orionis]	4.53	B 0	5 30 58.599	+3.2933	− 1	+ 9 26 36.54	+2.521	− 10
209	ι Orionis	2.87	Oe 5	5 32 0.508	+2.9350	+ 4	− 5 57 16.81	+2.438	− 4
210	ε Orionis	1.75	B 0	5 32 39.640	+3.0441	+ 1	− 1 14 43.27	+2.382	− 3
212	β Doradus	3.81	F 5 p	5 33 0.908	+0.5185	− 13	−62 32 7.55	+2.352	− 2
211	ζ Tauri	3.00	B 3 p	5 33 27.620	+3.5857	+ 6	+21 6 4.84	+2.290	− 26
214	[γ Mensae]	5.06	K 0	5 34 38.697	−2.3851	+283	−76 23 30.38	+2.511	+298
213	[σ Orionis]	3.78	B 0	5 35 13.872	+3.0117	0	− 2 38 21.12	+2.161	− 1
215	α Columbae	2.75	B 5 p	5 37 6.784	+2.1722	− 2	−34 6 38.30	+1.961	− 37
216	ο Aurigae	5.52	A 0	5 40 28.565	+4.6477	− 6	+49 47 51.33	+1.697	− 9
217	[γ Leporis]	3.80	F 8	5 41 32.725	+2.5019	−201	−22 28 12.78	+1.237	−376
218	[130 Tauri]	5.51	F 0	5 43 21.291	+3.4987	+ 4	+17 42 15.90	+1.449	− 6
219	ζ Leporis	3.67	A 2	5 43 46.984	+2.7183	− 12	−14 50 48.73	+1.415	− 2
220	κ Orionis	2.20	B 0	5 44 26.169	+2.8455	+ 4	− 9 41 35.79	+1.357	− 3
221	[ν Aurigae]	4.18	K 0	5 46 38.230	+4.1578	− 4	+39 7 47.39	+1.179	+ 11
222	[δ Leporis]	3.90	K 0	5 48 18.639	+2.5802	+165	−20 53 2.38	+0.369	−653
223	[β Columbae]	3.22	K 0	5 48 29.438	+2.1140	+ 34	−35 47 37.24	+1.410	+404
224	α Orionis	0.92	M a	5 51 22.897	+3.2483	+ 20	+ 7 23 43.75	+0.767	+ 13
226	[η Leporis]	3.77	F 0	5 53 12.983	+2.7328	− 27	−14 10 45.47	+0.733	+140
225	δ Aurigae	3.88	K 0	5 53 45.788	+4.9406	+100	+54 16 53.44	+0.423	−122
227	β Aurigae	2.07	A 0 p	5 54 23.654	+4.4019	− 42	+44 56 31.79	+0.483	− 8
228	ϑ Aurigae	2.71	A 0 p	5 54 56.881	+4.0922	+ 49	+37 12 33.76	+0.355	− 87
229	η Columbae	4.03	K 0	5 57 0.241	+1.8370	+ 22	−42 49 6.52	+0.228	− 34
230	[66 Orionis]	5.70	K 0	6 1 16.411	+3.1696	− 6	+ 4 9 49.87	−0.126	− 15
231	[Puppis 1 G.]	6.22	F 8	6 2 27.513	+1.7267	− 83	−45 2 8.33	+0.017	+232
232	ν Orionis	4.40	B 2	6 3 34.531	+3.4264	+ 11	+14 46 41.40	−0.344	− 31
233	[36 Camelop.]	5.39	K 0	6 5 48.512	+6.0358	− 5	+65 44 5.80	−0.537	− 29
235	[δ Pictoris]	4.84	B 1	6 8 56.023	+1.1670	− 22	−54 57 9.47	−0.788	− 7
236	*η Geminor.	var.	M a	6 10 39.157	+3.6224	− 42	+22 31 43.25	−0.944	− 13
234	22 H. Camelop.	4.73	A 0	6 11 8.196	+6.6155	+ 15	+69 20 50.68	−1.076	−102
239	[α Mensae]	5.14	K 0	6 12 19.322	−1.7913	+234	−74 43 47.71	−1.304	−226
237	[2 Lyncis]	4.42	A 0	6 13 26.930	+5.2958	− 7	+59 2 19.04	−1.146	+ 29
238	[κ Columbae]	4.51	K 0	6 14 3.676	+2.1343	− 6	−35 6 59.07	−1.155	+ 74

Nr. 236. Größe: Max. 3.3, Min. 4.2

Mittlere Sternörter 1930.0

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
240	ζ Canis maj.	3.10	B 3	6 17 37.511	+ 2.3029	+ 2	−30 1 52.42	−1.536	+ 4
241	μ Geminor.	3.19	M a	6 18 43.586	+ 3.6307	+ 48	+22 33 4.03	−1.747	− 111
242	ψ¹ Aurigae	5.10	K 2	6 19 30.553	+ 4.6231	+ 9	+49 19 32.32	−1.707	− 3
243	β Canis maj.	1.99	B 1	6 19 36.997	+ 2.6419	− 4	−17 55 11.97	−1.712	+ 2
244	8 Monocer.	4.48 6.54	A 5	6 20 3.550	+ 3.1800	− 7	+ 4 37 46.98	−1.748	+ 4
245	α Argus	−0.86	F 0	6 22 23.802	+ 1.3315	+ 16	−52 39 24.83	−1.944	+ 11
246	10 Monocer.	4.98	B 3	6 24 30.179	+ 2.9630	− 2	− 4 43 3.31	−2.134	+ 5
247	8 Lyncis	6.05	G 0	6 31 17.860	+ 5.4872	−285	+61 32 42.10	−3.005	− 277
249	ξ² Canis maj.	4.54	A 0	6 32 7.327	+ 2.5143	+ 5	−22 54 29.80	−2.787	+ 13
251	γ Geminor.	1.93	A 0	6 33 40.132	+ 3.4669	+ 34	+16 27 37.76	−2.980	− 46
250	51 Aurigae	5.71	K 0	6 33 48.605	+ 4.1589	− 18	+39 27 15.40	−3.061	− 114
248	23 H.Camelop.	5.60	F 8	6 34 19.221	+10.2745	−294	+79 38 40.29	−3.612	− 622
252	ν Argus	3.18	B 8	6 35 37.135	+ 1.8356	− 4	−43 8 2.17	−3.123	− 20
253	*S Monocer.	4.68	Oe 5	6 37 7.431	+ 3.3051	+ 6	+ 9 57 42.83	−3.238	− 5
254	ε Geminor.	3.18	G 5	6 39 37.619	+ 3.6927	+ 3	+25 12 7.26	−3.463	− 15
256	ξ Geminor.	3.40	F 5	6 41 21.688	+ 3.3682	− 75	+12 58 20.78	−3.797	− 199
255	[ψ⁵ Aurigae]	5.34	G 0	6 41 41.808	+ 4.3272	+ 7	+43 38 55.74	−3.473	+ 154
257	*α Canis maj.	−1.58	A 0	6 42 3.904	+ 2.6437	−371	−16 37 8.37	−4.870	−1212
258	18 Monocer.	4.70	K 0	6 44 12.716	+ 3.1297	− 2	+ 2 29 23.98	−3.863	− 20
264	[ζ Mensae]	5.64	A 2	6 45 54.159	− 4.9641	− 34	−80 44 29.28	−3.903	+ 85
259	[43 Camelop.]	5.13	B 5	6 46 10.070	+ 6.4804	+ 16	+68 58 20.45	−4.008	+ 3
262	α Pictoris	3.30	A 5	6 47 28.468	+ 0.6173	−100	−61 51 57.40	−3.867	+ 256
261	ϑ Geminor.	3.64	A 2	6 48 10.664	+ 3.9567	+ 7	+34 2 50.13	−4.237	− 55
263	[τ Argus]	2.83	K 0	6 48 11.933	+ 1.4887	+ 29	−50 31 51.06	−4.280	− 96
260	[24 H. Camel.]	4.75	K 5	6 49 53.080	+ 8.7778	+216	+77 4 12.82	−4.342	− 14
266	ϑ Canis maj.	4.25	K 2	6 50 56.264	+ 2.7877	− 94	−11 56 59.16	−4.432	− 13
265	15 Lyncis	4.54	G 0	6 51 13.279	+ 5.2006	− 1	+58 31 0.21	−4.573	− 130
267	[ι Volantis]	5.52	B 8	6 52 15.381	− 0.6817	− 4	−70 52 35.50	−4.519	+ 12
268	ε Canis maj.	1.63	B 1	6 55 52.439	+ 2.3577	0	−28 52 32.93	−4.837	+ 1
269	*ζ Geminor.	var.	G 0 p	6 59 57.532	+ 3.5600	0	+20 40 28.18	−5.187	− 3
270	[o² Canis maj.]	3.12	B 5 p	7 0 6.083	+ 2.5054	− 2	−23 43 47.96	−5.196	0
271	γ Canis maj.	4.07	B 5	7 0 35.527	+ 2.7153	+ 8	−15 31 43.51	−5.250	− 12
272	[Carinae 27 G.]	5.30	A 0	7 2 59.952	+ 1.1168	− 24	−56 38 34.75	−5.448	− 7
273	δ Canis maj.	1.98	F 8 p	7 5 32.662	+ 2.4391	− 8	−26 16 51.77	−5.651	+ 3
274	63 Aurigae	5.07	K 2	7 6 50.653	+ 4.1300	+ 45	+39 26 11.26	−5.763	0
275	[J Puppis]	4.47	F 0	7 10 33.809	+ 1.7096	−147	−46 38 30.36	−5.984	+ 91
276	[64 Aurigae]	5.75	A 3	7 13 10.442	+ 4.1758	− 3	+41 0 33.36	−6.288	+ 3
277	λ Geminor.	3.65	A 2	7 14 4.300	+ 3.4492	− 31	+16 40 4.86	−6.410	− 44
278	π Argus	2.74	K 5	7 14 40.180	+ 2.1186	− 14	−36 58 15.35	−6.413	+ 3
279	δ Geminor.	3.51	F 0	7 15 56.685	+ 3.5853	− 11	+22 6 45.97	−6.532	− 10

Nr. 253. Doppelstern, Größe der Komponenten: 6.0 und 8.8 Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach den Elementen von Auwers A. N. 3085

1930.0 $\Delta\alpha = -0^s.165$ $\Delta\delta = -2''.24$
1931.0 $= -0.153$ $= -2.26$

Nr. 269. Größe. Max. 3.7, Min. 4.3

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
281	δ Volantis	4.02	F 5	7 16 52.352	−0.0232	+ 4	−67 49 45.24	− 6.610	− 12
280	19 Lyncis seq.	5.61	B 8	7 17 9.804	+4.9021	− 1	+55 24 54.95	− 6.656	− 34
283	[η Can. maj.]	2.43	B 5 p	7 21 19.559	+2.3731	− 5	−29 9 55.54	− 6.951	+ 13
282	ι Geminor.	3.89	K 0	7 21 22.929	+3.7290	− 83	+27 56 19.55	− 7.054	− 85
285	β Canis min.	3.09	B 8	7 23 21.359	+3.2549	− 31	+ 8 25 54.14	− 7.171	− 40
284	Grb 1308	5.80	K 0	7 23 36.813	+6.2594	− 7	+68 36 40.06	− 7.196	− 44
286	ρ Geminor.	4.18	F 0	7 24 36.729	+3.8616	+122	+31 55 31.36	− 7.051	+ 183
287	*α Geminor.	2.85 1.99	A 0	7 30 8.118	+3.8326	−129	+32 2 38.57	− 7.763	− 81
288	[Pupp. 108 G.]	4.52	F 8	7 31 3.360	+2.5675	− 39	−22 8 39.02	− 7.738	+ 18
289	25 Monocer.	5.17	F 5	7 33 47.907	+2.9834	− 47	− 3 57 12.48	− 7.957	+ 20
290	[f Puppis]	4.62	B 8	7 34 46.649	+2.2194	− 27	−34 48 36.49	− 8.039	+ 16
291	*α Canis min.	0.48	F 5	7 35 38.325	+3.1415	−470	+ 5 24 20.49	− 9.151	−1027
292	24 Lyncis	4.96	A 2	7 37 5.699	+5.0856	− 47	+58 52 34.11	− 8.293	− 53
293	[26 Monocer.]	4.07	K 0	7 37 54.155	+2.8661	− 57	− 9 23 12.14	− 8.326	− 21
294	κ Geminor.	3.68	G 5	7 40 13.489	+3.6247	− 15	+24 34 2.30	− 8.543	− 54
295	β Geminor.	1.21	K 0	7 41 2.144	+3.6740	−468	+28 11 48.18	− 8.605	− 52
297	ζ Volantis	3.89	K 0	7 42 41.365	−0.7318	+ 8	−72 26 17.81	− 8.676	+ 8
296	π Geminor.	5.29	K 2	7 42 59.854	+3.8722	− 1	+33 35 20.43	− 8.739	− 31
298	[Pupp. 205 G.]	5.34	G 0	7 48 31.844	+2.7786	− 41	−13 42 40.40	− 9.484	− 343
299	[26 Lyncis]	5.69	K 0	7 49 37.337	+4.3748	− 40	+47 44 51.71	− 9.233	− 6
301	[α Puppis]	3.76	G 5	7 49 48.602	+2.0621	− 18	−40 23 39.94	− 9.240	+ 1
300	Grb 1374	5.56	K 0	7 51 51.155	+7.2154	− 30	+74 6 27.76	− 9.431	− 32
303	χ Argus	3.60	B 3	7 55 0.003	+1.5266	− 32	−52 47 37.81	− 9.617	+ 24
302	[53 Camelop.]	6.00	A 2 p	7 55 44.625	+5.1384	− 30	+60 31 3.78	− 9.719	− 21
304	[27 Monocer.]	5.06	K 0	7 56 14.433	+2.9990	− 27	− 3 29 14.82	− 9.727	+ 9
305	χ Geminor.	5.04	K 0	7 59 13.368	+3.6877	− 15	+27 59 31.11	−10.009	− 46
306	ζ Argus	2.27	O d	8 1 7.366	+2.1079	− 34	−39 48 18.56	−10.097	+ 10
307	27 Lyncis	4.87	A 2	8 3 12.074	+4.5209	− 59	+51 42 36.52	−10.268	− 4
308	ι Navis	2.88	F 5	8 4 33.744	+2.5548	− 64	−24 6 5.62	−10.319	+ 47
309	γ Argus	2.22	O a p	8 7 22.480	+1.8488	− 12	−47 7 46.74	−10.580	− 4
311	20 Navis	5.05	G 5	8 10 6.945	+2.7580	− 8	−15 34 34.76	−10.784	− 6
310	Br. 1147	5.73	G 5	8 10 47.730	+7.5800	+ 58	+75 58 24.13	−10.812	+ 17
312	β Cancri	3.76	K 2	8 12 43.258	+3.2551	− 30	+ 9 24 8.84	−11.022	− 52
313	[q Puppis]	4.43	A 5	8 15 55.997	+2.2444	−104	−36 26 29.71	−11.115	+ 89
314	31 Lyncis	4.43	K 5	8 18 3.048	+4.1138	− 8	+43 24 50.60	−11.464	− 108
315	ε Argus	1.74	K 0 + B	8 21 4.793	+1.2335	− 32	−59 17 1.26	−11.559	+ 15
316	Br. 1197	3.95	A 0	8 22 9.836	+2.9989	− 41	− 3 40 37.02	−11.672	− 21
318	θ Chamael.	4.26	K 0	8 22 46.180	−1.7727	−458	−77 15 33.51	−11.664	+ 30
317	ο Ursae maj.	3.47	G 0	8 24 27.900	+4.9992	−174	+60 57 14.15	−11.925	− 110
319	[β Volantis]	3.65	K 0	8 24 58.861	+0.6579	− 54	−65 54 11.43	−12.028	− 177

Nr. 287. Rektaszension der Mitte, Deklination des folgenden, helleren Sterns. Nr. 291. Ort des Schwerpunktes. Die Reduktion auf den Ort des hellen Sterns beträgt nach den Elementen von Auwers A. N. 3929

1930.0 $\Delta\alpha = +0^s.056$ $\Delta\delta = +0''.27$
1931.0 $= +0\ .061$ $= +0\ .16$

Mittlere Sternörter 1930.0

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
320	Grb 1450	6.05	K 0	8 28 22.321	+3.9051	— 83	+38 15 28.23	—12.259	—170
321	η Cancri	5.52	K 0	8 28 39.857	+3.4723	— 26	+20 40 48.51	—12.159	— 50
322	[Grb 1446]	6.29	K 0	8 31 58.098	+6.7123	— 37	+73 52 35.92	—12.443	—104
323	[Grb 1460]	6.03	K 0	8 34 7.056	+4.4543	— 38	+52 57 30.09	—12.521	— 35
324	[e Velorum]	4.13	A 5	8 35 10.866	+2.1082	— 22	—42 44 36.91	—12.566	— 7
325	[6 Hydrae]	5.15	K 2	8 36 42.464	+2.8420	— 64	—12 13 37.00	—12.665	— 3
326	δ Cancri	4.17	K 0	8 40 42.615	+3.4119	— 9	+18 24 45.62	—13.168	—236
327	α Pyxidis	3.70	B 2	8 40 46.717	+2.4103	— 15	—32 55 59.45	—12.925	+ 12
328	ι Cancri	6.61 4.20	A 5 G 5	8 42 27.965	+3.6344	— 12	+29 1 1.70	—13.096	— 47
330	δ Argus	2.01	A 0	8 42 46.260	+1.6571	+ 22	—54 27 5.69	—13.162	— 93
329	[ε Hydrae]	3.48	F 8	8 43 4.264	+3.1788	— 126	+ 6 40 36.19	—13.139	— 50
331	[η Chamael.]	5.62	B 9	8 43 44.613	—1.9986	— 151	—78 42 35.17	—13.100	+ 34
332	[γ Pyxidis]	4.19	K 2	8 47 33.643	+2.5462	— 99	—27 26 57.42	—13.290	+ 94
333	[σ²Cancri med.]	5.60	K 0	8 49 58.726	+3.6644	+ 31	+30 50 44.23	—13.566	— 26
334	ζ Hydrae	3.30	K 0	8 51 41.726	+3.1730	— 64	+ 6 12 46.73	—13.639	+ 12
336	c Carinae	3.98	B 8	8 53 27.784	+1.3618	— 26	—60 22 35.33	—13.712	+ 52
335	ι Ursae maj.	3.12	A 5	8 54 25.494	+4.1159	— 437	+48 19 3.57	—14.071	—247
337	α Cancri	4.27	A 3	8 54 39.684	+3.2833	+ 26	+12 7 47.02	—13.875	— 35
339	10 Ursae maj.	4.09	F 5	8 56 6.254	+3.9016	— 383	+42 3 39.66	—14.194	—264
338	[ρ Ursae maj.]	4.99	M a	8 56 15.623	+5.4346	— 34	+67 54 14.66	—13.926	+ 15
341	κ Ursae maj.	3.68	A 0	8 58 51.365	+4.1041	— 27	+47 26 4.43	—14.167	— 65
340	[Grb 1501]	5.68	A 2	8 58 53.424	+4.4062	— 8	+54 33 40.11	—14.102	+ 3
343	α Volantis	4.18	A 5	9 1 20.758	+0.9507	— 8	—66 6 59.42	—14.370	—114
342	[c Velorum]	3.69	K 0	9 1 44.255	+2.0667	— 70	—46 49 6.74	—14.308	— 28
344	σ² Ursae maj.	4.87	F 8	9 4 15.584	+5.3009	— 16	+67 25 13.51	—14.502	— 67
345	λ Argus	2.22	K 5	9 5 25.141	+2.2050	— 33	—43 8 57.33	—14.496	+ 9
346	[36 Lyncis]	5.30	B 8	9 9 14.044	+3.9311	— 18	+43 30 26.69	—14.775	— 42
347	θ Hydrae	3.84	A 0	9 10 43.445	+3.1228	+ 89	+ 2 36 37.80	—15.134	—313
348	β Argus	1.80	A 0	9 12 26.361	+0.6652	— 304	—69 25 43.27	—14.824	+ 97
349	[38 Lyncis]	3.82	A 2	9 14 29.721	+3.7391	— 18	+37 5 59.55	—15.170	—129
350	*83 Cancri	6.60	F 5	9 15 4.675	+3.3511	— 80	+18 0 10.95	—15.210	—135
351	[ι Argus]	2.25	F 0	9 15 12.945	+1.6057	— 35	—58 58 51.78	—15.081	+ 2
352	40 Lyncis	3.30	K 5	9 16 47.796	+3.6595	— 178	+34 41 22.45	—15.161	+ 12
353	κ Argus	2.63	B 3	9 19 56.660	+1.8568	— 22	—54 42 40.26	—15.350	+ 2
354	α Hydrae	2.16	K 2	9 24 8.894	+2.9488	— 7	— 8 21 15.64	—15.554	+ 32
355	h Ursae maj.	3.75	F 0	9 26 1.909	+4.7483	+ 168	+63 22 9.22	—15.661	+ 28
356	[ε Antliae]	4.64	K 2	9 26 21.266	+2.4750	— 25	—35 38 40.59	—15.720	— 14
359	ψ Argus	3.64	F 5	9 27 56.453	+2.3613	— 172	—40 9 34.26	—15.718	+ 74
358	θ Ursae maj.	3.26	F 8 p	9 28 11.237	+4.0220	—1027	+51 59 50.57	—16.351	—545
357	d Ursae maj.	4.57	G 0	9 28 19.589	+5.3343	— 120	+70 8 22.04	—15.738	+ 75

Nr. 350. Größe aus Harvard 54 entnommen.

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
361	[*N* Velorum]	3.04	K 5	9 29 5.696	+1.8233	− 36	−56 43 29.86	−15.853	+ 1
360	10 Leon. min.	4.62	G 5	9 29 56.523	+3.6809	+ 13	+36 42 33.63	−15.925	− 26
362	[H. Carinae]	5.52	K 2	9 31 5.515	+0.4600	− 61	−72 46 13.39	−15.977	− 17
363	[Grb 1564]	5.74	K 0	9 36 17.208	+5.1633	−131	+69 33 26.62	−16.304	− 74
364	[ϰ Hydrae]	4.96	B 3	9 36 57.023	+2.8762	− 18	−14 0 49.77	−16.276	− 11
365	[ο Leonis]	3.76	F 5 + A 3	9 37 25.027	+3.2038	− 94	+10 12 41.86	−16.326	− 37
366	ϑ Antliae	4.98	F 5 p	9 41 4.804	+2.6735	− 40	−27 26 53.83	−16.438	+ 35
367	ε Leonis	3.12	G 0 p	9 41 52.928	+3.4086	− 31	+24 5 50.55	−16.530	− 17
369	υ Argus	3.15 6.03	F 0	9 45 21.182	+1.5005	− 21	−64 44 48.84	−16.685	− 1
368	υ Ursae maj.	3.89	F 0	9 46 1.749	+4.2803	−379	+59 22 8.54	−16.870	−154
370	6 Sextantis	6.00	A 2	9 47 42.434	+3.0238	+ 8	− 3 54 52.50	−16.827	− 30
371	[μ Leonis]	4.10	K 0	9 48 47.212	+3.4151	−162	+26 20 14.94	−16.904	− 56
373	[Hydrae 183 G.]	5.16	M a	9 51 34.117	+2.8303	− 25	−18 40 38.59	−17.045	− 66
372	Grb 1586	5.96	K 0	9 52 9.993	+5.3997	−179	+73 12 48.67	−17.052	− 45
374	[19 Leon. min.]	5.19	F 5	9 53 24.317	+3.6808	−100	+41 23 23.33	−17.090	− 27
375	[φ Argus]	3.70	B 5	9 54 24.153	+2.1043	− 21	−54 14 2.74	−17.111	− 2
377	[η Antliae]	5.25	F 0	9 55 51.921	+2.5722	− 83	−35 33 19.23	−17.199	− 24
376	[12 Sextantis]	6.63	A 5	9 56 5.302	+3.1129	− 47	+ 3 43 12.75	−17.158	+ 27
378	π Leonis	4.89	M a	9 56 30.981	+3.1718	− 21	+ 8 22 50.83	−17.229	− 25
379	η Leonis	3.58	A 0 p	10 3 31.153	+3.2728	− 2	+17 6 16.84	−17.517	− 6
380	α Leonis	1.34	B 8	10 4 38.792	+3.1969	−167	+12 18 35.79	−17.559	− 1
381	λ Hydrae	3.83	K 0	10 7 10.537	+2.9252	−134	−12 0 26.71	−17.751	− 87
382	*q* Velorum	4.09	A 2	10 11 47.588	+2.5146	−154	−41 46 28.41	−17.807	+ 45
385	[ω Argus]	3.56	B 8	10 12 4.722	+1.4320	− 29	−69 41 24.00	−17.863	0
384	ζ Leonis	3.65	F 0	10 12 48.068	+3.3397	+ 15	+23 46 0.64	−17.899	− 7
383	λ Ursae maj.	3.52	A 2	10 12 53.010	+3.6248	−148	+43 15 52.40	−17.943	− 49
386	μ Ursae maj.	3.21	K 5	10 18 10.013	+3.5805	− 70	+41 51 7.70	−18.074	+ 24
387	30 H. Urs. maj.	4.92	A 0	10 19 6.370	+4.3446	− 25	+65 55 16.46	−18.152	− 18
388	[25 Sextantis]	6.10	B 9	10 19 54.202	+3.0322	− 40	− 3 43 11.21	−18.165	− 2
389	μ Hydrae	4.06	K 5	10 22 42.267	+2.9016	− 85	−16 28 42.38	−18.347	− 82
391	*J* Carinae	4.08	F 5	10 23 0.515	+1.1925	− 67	−73 40 29.69	−18.293	− 17
390	31 Leon. min.	4.41	K 0	10 23 50.546	+3.4745	− 96	+37 3 59.52	−18.412	−106
392	Lac. α Antliae	4.42	K 5	10 23 56.779	+2.7436	− 62	−30 42 39.14	−18.300	+ 10
393	*s* Carinae	4.08	F 0	10 25 18.280	+2.1982	− 32	−58 22 53.92	−18.372	− 14
394	36 Ursae maj.	4.84	F 5	10 26 9.631	+3.8502	−216	+56 20 24.65	−18.420	− 33
396	[ρ Leonis]	3.85	B 0 p	10 29 7.631	+3.1603	− 6	+ 9 40 2.45	−18.494	− 5
395	9 H. Dracon.	5.04	G 5	10 29 11.733	+5.1432	− 96	+76 4 27.98	−18.496	− 4
397	[*p* Carinae]	3.58	B 5 p	10 29 31.948	+2.1315	− 18	−61 19 29.37	−18.498	+ 5
398	[37 Ursae maj.]	5.16	F 0	10 30 40.031	+3.8765	+ 83	+57 26 37.67	−18.505	+ 36
399	[44 Hydrae]	5.32	K 2	10 30 41.045	+2.8532	− 2	−23 23 2.28	−18.521	+ 21

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
400	*[p Velorum]	4.06	F 2 + A 3	10 34 21.198	+2.5154	−183	−47 51 42.42	−18.694	− 34
401	[γ Chamael.]	4.10	M a	10 34 39.426	+0.7250	−116	−78 14 39.73	−18.641	+ 30
402	[x Velorum]	4.37	G 0	10 36 30.717	+2.3794	− 75	−55 14 18.73	−18.750	− 21
404	33 Sextantis	6.40	K 0	10 37 50.557	+3.0523	− 94	− 1 22 23.36	−18.895	−125
403	[35 H.Urs. maj.]	5.23	K 0	10 38 4.909	+4.3177	− 19	+69 26 34.53	−18.795	− 18
405	[41 Leon. min.]	5.05	A 2	10 39 36.842	+3.2650	− 80	+23 33 19.62	−18.811	+ 13
406	ϑ Argus	3.03	B 0	10 40 27.328	+2.1372	− 26	−64 1 38.42	−18.845	+ 4
407	42 Leon. min.	5.37	B 9	10 41 58.680	+3.3400	− 15	+31 3 5.45	−18.931	− 37
408	μ Argus	2.84	G 5	10 43 45.155	+2.5749	+ 49	−49 3 0.23	−19.010	− 65
411	[δ² Chamael.]	4.62	B 3	10 45 9.019	+0.5865	−120	−80 10 14.85	−18.975	+ 9
409	l Leonis	5.27	A 0	10 45 34.785	+3.1548	− 3	+10 54 57.59	−19.027	− 30
410	[ν Hydrae]	3.32	K 0	10 46 10.192	+2.9596	+ 66	−15 49 37.15	−18.819	+194
412	[46 Leon. min.]	3.92	K 0	10 49 24.183	+3.3599	+ 76	+34 35 33.69	−19.383	−282
414	[ι Antliae]	4.70	K 0	10 53 27.120	+2.7933	+ 62	−36 45 40.24	−19.342	−137
413	[Br. 1508]	6.26	G 5	10 54 24.464	+4.8443	−258	+78 8 44.68	−19.255	− 26
415	i Velorum	4.56	A 2	10 56 56.313	+2.7497	+ 20	−41 51 0.55	−19.294	− 4
416	β Ursae maj.	2.44	A 0	10 57 37.821	+3.6310	+101	+56 45 28.73	−19.280	+ 26
417	α Ursae maj.	1.95	K 0	10 59 25.435	+3.7156	−174	+62 7 45.24	−19.420	− 72
418	χ Leonis	4.66	F 0	11 1 24.457	+3.0956	−231	+ 7 42 53.34	−19.438	− 46
419	[χ Hydrae]	5.06	F 5	11 1 57.338	+2.8875	−154	−26 54 55.75	−19.412	− 7
420	ψ Ursae maj.	3.15	K 0	11 5 44.163	+3.3793	− 57	+44 52 42.88	−19.521	− 36
421	β Crateris	4.52	A 2	11 8 12.766	+2.9492	0	−22 26 35.92	−19.632	− 98
422	δ Leonis	2.58	A 3	11 10 23.324	+3.1932	+106	+20 54 26.94	−19.713	−136
423	ϑ Leonis	3.41	A 0	11 10 34.137	+3.1496	− 43	+15 48 44.85	−19.661	− 81
424	[Grb 1757]	5.97	K 0	11 12 45.669	+3.3875	− 97	+49 51 30.48	−19.642	− 22
425	ν Ursae maj.	3.71	K 0	11 14 42.194	+3.2448	− 16	+33 28 35.30	−19.632	+ 22
426	δ Crateris	3.82	K 0	11 15 50.350	+2.9984	− 88	−14 23 58.28	−19.473	+200
427	σ Leonis	4.13	A 0	11 17 31.677	+3.0943	− 62	+ 6 24 47.62	−19.713	− 12
428	π Centauri	4.26	B 5	11 17 48.473	+2.7307	− 41	−54 6 25.95	−19.719	− 13
429	Grb 1771	5.98	A 0	11 18 42.737	+3.5787	− 10	+64 42 49.93	−19.685	+ 34
430	[ι Leonis]	4.03	F 5	11 20 16.580	+3.1280	+106	+10 54 53.78	−19.828	− 84
431	[γ Crateris]	4.14	A 5	11 21 22.961	+2.9959	− 72	−17 17 57.26	−19.754	+ 7
432	[58 Ursae maj.]	5.88	F 8	11 26 44.282	+3.2523	− 43	+43 33 27.33	−19.762	+ 72
433	λ Draconis	4.06	M a	11 27 16.198	+3.5796	− 80	+69 43 3.30	−19.862	− 21
434	ξ Hydrae	3.72	G 5	11 29 33.282	+2.9478	−167	−31 28 12.53	−19.910	− 43
435	[C² Centauri]	5.42	F 0	11 32 31.541	+2.9013	+ 13	−47 15 11.71	−19.947	− 47
436	λ Centauri	3.34	B 9	11 32 32.560	+2.7586	− 58	−62 37 56.64	−19.918	− 17
437	υ Leonis	4.47	K 0	11 33 21.873	+3.0718	+ 1	− 0 26 13.91	−19.873	+ 36
438	[π Chamael.]	5.74	F 0	11 34 21.871	+2.4678	−280	−75 30 31.99	−19.924	− 5
439	[ο Hydrae]	4.88	B 8	11 36 43.937	+2.9773	− 30	−34 21 23.61	−19.940	+ 1

Nr. 400. Doppelstern, Größe der Komponenten: 4.5 und 5.0

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
440	3 Draconis	5.48	K o	11 38 35.108	+3.3608	− 78	+67 7 57.00	−19.917	+ 40
442	[λ Muscae]	3.80	A 5	11 42 17.522	+2.8222	−153	−66 20 26.44	−19.964	+ 20
441	χ Ursae maj.	3.85	K o	11 42 21.705	+3.1743	−133	+48 10 3.18	−19.965	+ 20
443	[Centauri 65 G.]	4.22	G o	11 43 7.103	+2.8945	− 25	−60 47 21.34	−20.025	− 35
444	β Leonis	2.23	A 2	11 45 29.448	+3.0614	−341	+14 57 48.33	−20.122	−118
445	β Virginis	3.80	F 8	11 47 2.938	+3.1252	+494	+ 2 9 33.15	−20.288	−276
446	[B Centauri]	4.71	K o	11 47 38.165	+2.9903	−111	−44 47 3.27	−20.061	− 46
447	γ Ursae maj.	2.54	A o	11 50 9.454	+3.1628	+107	+54 5 2.04	−20.023	+ 2
448	[ε Chamael.]	5.05	B 9	11 56 7.334	+2.9518	−162	−77 49 55.30	−20.050	− 9
449	[Centauri 88 G.]	5.28	F o	12 0 1.535	+3.0997	+267	−42 2 31.72	−20.167	−122
450	o Virginis	4.24	G 5	12 1 38.644	+3.0566	−147	+ 9 7 17.90	−20.006	+ 38
451	[Grb 1852]	5.96	K o	12 1 43.082	+3.0720	+436	+77 17 49.67	−20.140	− 96
452	δ Centauri	2.88	B 3 p	12 4 43.306	+3.1017	− 44	−50 19 57.33	−20.058	− 18
453	ε Corvi	3.21	K o	12 6 31.265	+3.0833	− 51	−22 13 49.76	−20.025	+ 11
454	4 H. Draconis	5.12	A 5	12 8 56.495	+2.8298	+ 23	+78 0 18.62	−20.006	+ 23
455	[δ Crucis]	3.08	B 3	12 11 25.007	+3.1758	− 51	−58 21 35.10	−20.046	− 27
456	δ Ursae maj.	3.44	A 2	12 11 58.250	+2.9773	+135	+57 25 17.01	−20.014	+ 3
457	[γ Corvi]	2.78	B 8	12 12 12.195	+3.0836	−112	−17 9 12.19	−19.999	+ 17
458	[2 Can. ven.]	5.80	K 5	12 12 37.435	+3.0114	+ 26	+41 2 58.60	−20.059	− 45
459	β Chamael.	4.38	B 5	12 14 12.103	+3.4812	−143	−78 55 25.05	−19.994	+ 12
460	η Virginis	4.00	A o	12 16 19.433	+3.0692	− 42	− 0 16 40.55	−20.017	− 23
461	[6 Can. ven.]	5.22	K o	12 22 24.287	+2.9590	− 67	+39 24 24.54	−19.985	− 36
462	α Crucis med.	1.58 2.09	B 1	12 22 41.721	+3.3246	− 44	−62 42 42.27	−19.977	− 31
463	[Hydr. 323 G.]	5.68	A o	12 23 9.993	+3.1572	− 14	−32 26 32.60	−19.991	− 49
464	[σ Centauri]	4.16	B 3	12 24 14.708	+3.2366	− 36	−49 50 35.56	−19.965	− 33
466	20 Comae	5.72	A 2	12 26 12.389	+3.0161	+ 26	+21 17 0.58	−19.952	− 39
465	δ Corvi	3.11	A o	12 26 14.368	+3.1026	−145	−16 7 33.27	−20.055	−142
467	[74 Ursae maj.]	5.44	A 5	12 26 41.570	+2.8070	− 96	+58 47 26.47	−19.821	+ 88
468	[γ Crucis]	1.61	M b	12 27 16.242	+3.3172	+ 26	−56 43 17.47	−20.180	−278
469	[γ Muscae]	4.04	B 5	12 28 15.848	+3.5631	− 82	−71 44 47.91	−19.914	− 22
470	8 Can. ven.	4.32	G o	12 30 25.385	+2.8527	−624	+41 44 15.08	−19.588	+280
472	κ Draconis	3.88	B 5 p	12 30 30.320	+2.5693	−117	+70 10 25.91	−19.860	+ 7
471	β Corvi	2.84	G 5	12 30 42.329	+3.1482	− 4	−23 0 35.54	−19.924	− 59
473	24 Comae seq.	5.18	K o	12 31 37.211	+3.0106	+ 2	+18 45 43.85	−19.835	+ 18
474	α Muscae	2.94	B 3	12 32 59.422	+3.5603	− 56	−68 45 0.83	−19.869	− 32
475	[χ Virginis]	4.78	K o	12 35 37.898	+3.0956	− 49	− 7 36 38.48	−19.840	− 37
476	γ Centauri	2.38	A o	12 37 38.752	+3.3000	−205	−48 34 32.29	−19.794	− 20
477	[γ Virgin. med.]	3.65 3.68	F o F o	12 38 6.727	+3.0395	−375	− 1 3 56.87	−19.763	+ 5
478	76 Ursae maj.	5.92	A o	12 38 30.891	+2.6279	− 45	+63 5 49.74	−19.779	− 17
479	[Hydr. 330 G.]	5.73	K 2	12 40 16.365	+3.1942	− 26	−27 56 24.64	−19.786	− 50

Mittlere Sternörter 1930.0

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
480	[β Muscae]	3.26	B 3	12 41 58.086	+3.6617	− 53	−67 43 31.03	−19.740	− 31
481	β Crucis	1.50	B 1	12 43 37.005	+3.4928	− 59	−59 18 23.13	−19.709	− 27
482	ν Centauri	4.34	A 5	12 49 33.080	+3.3162	+ 45	−39 47 55.22	−19.615	− 37
483	ε Ursae maj.	1.68	A 0 p	12 50 57.327	+2.6441	+137	+56 20 22.04	−19.562	− 11
484	δ Virginis	3.66	M a	12 52 4.591	+3.0215	−315	+ 3 46 38.70	−19.592	− 63
486	8 Draconis	5.27	F 0	12 52 41.692	+2.3931	− 15	+65 49 4.51	−19.550	− 34
485	12 Can. ven. sq.	2.90	A 0 p	12 52 45.396	+2.8088	−199	+38 41 45.79	−19.465	+ 50
487	[δ Muscae]	3.63	K 2	12 57 25.518	+4.0976	+530	−71 10 18.48	−19.454	− 36
488	ε Virginis	2.95	K 0	12 58 41.541	+2.9866	−185	+11 20 6.02	−19.373	+ 18
489	[ξ² Centauri]	4.40	B 3	13 2 48.784	+3.4933	− 35	−49 31 54.84	−19.326	− 30
490	θ Virginis	4.44	A 0	13 6 19.406	+3.1050	− 24	− 5 9 56.77	−19.250	− 39
491	[17 Can. ven.]	6.04	F 0	13 6 50.538	+2.7573	− 59	+38 52 13.53	−19.166	+ 32
492	43 Comae	4.32	G 0	13 8 36.515	+2.8011	−602	+28 13 57.19	−18.274	+878
493	[η Muscae]	4.95	B 8	13 10 29.043	+4.0474	− 33	−67 31 27.43	−19.133	− 30
494	[20 Can. ven.]	4.66	F 0	13 14 24.408	+2.6924	−107	+40 56 26.03	−18.989	+ 8
495	γ Hydrae	3.33	G 5	13 15 6.710	+3.2589	+ 51	−22 48 10.14	−19.031	− 53
496	ι Centauri	2.91	A 2	13 16 39.239	+3.3663	−294	−36 20 37.02	−19.026	− 92
497	ζ Urs. maj. pr.	2.40	A 2 p	13 21 6.649	+2.4186	+143	+55 17 25.78	−18.827	− 25
498	α Virginis	1.21	B 2	13 21 30.138	+3.1588	− 28	−10 47 47.36	−18.823	− 33
499	Grb 2001	6.07	K 5	13 24 20.822	+1.5276	+ 35	+72 45 16.72	−18.717	− 15
500	69 H. Urs. maj.	5.41	A 0	13 25 53.126	+2.2042	−109	+60 18 24.99	−18.616	+ 37
501	ζ Virginis	3.44	A 2	13 31 7.475	+3.0560	−190	− 0 14 19.14	−18.446	+ 35
502	17 H. Can. ven.	4.96	F 0	13 31 40.370	+2.6794	+ 64	+37 32 25.76	−18.476	− 13
503	[Chamael. 49 G.]	6.44	A 0	13 33 9.732	+5.0859	− 49	−75 19 39.33	−18.425	− 14
504	ε Centauri	2.56	B 1	13 35 26.336	+3.7894	− 37	−53 6 40.67	−18.365	− 34
505	[Grb 2029]	5.67	K 0	13 35 29.934	+1.4386	− 86	+71 35 53.58	−18.330	0
506	[ι Centauri]	4.36	F 5	13 41 42.174	+3.4040	−371	−32 41 25.64	−18.259	−156
507	τ Bootis	4.51	F 5	13 43 56.136	+2.8509	−340	+17 48 17.76	−17.990	+ 28
509	η Ursae maj.	1.91	B 3	13 44 47.103	+2.3663	−119	+49 39 43.39	−18.006	− 20
508	[μ Centauri]	3.32	B 2 p	13 45 23.416	+3.6064	− 28	−42 7 32.08	−17.981	− 19
510	89 Virginis	5.11	K 0	13 46 3.855	+3.2574	− 69	−17 47 10.00	−17.974	− 38
511	[ι Draconis]	4.77	M a	13 49 23.269	+1.7524	0	+65 4 7.34	−17.806	− 2
512	ζ Centauri	3.06	B 2 p	13 51 9.678	+3.7327	− 70	−46 56 40.81	−17.793	− 61
513	η Bootis	2.80	G 0	13 51 21.106	+2.8569	− 41	+18 44 52.55	−18.088	−364
514	[Cent. 294 G.]	4.68	K 0	13 52 33.805	+4.3238	− 46	−63 20 39.65	−17.710	− 35
515	[47 Hydrae]	5.17	B 8	13 54 35.183	+3.3632	− 34	−24 37 52.95	−17.631	− 40
517	11 Bootis	6.12	A 3	13 58 0.098	+2.7214	− 57	+27 43 26.26	−17.438	+ 8
516	τ Virginis	4.34	A 2	13 58 4.950	+3.0525	+ 13	+ 1 52 56.92	−17.472	− 30
518	β Centauri	0.86	B 1	13 58 51.997	+4.2191	− 28	−60 2 10.96	−17.448	− 40
519	[π Hydrae]	3.48	K 0	14 2 22.765	+3.4127	+ 30	−26 20 45.78	−17.407	−153

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
521	α Draconis	3.64	A 0 p	14 2 29.581	+1.6239	− 83	+64 42 36.04	−17.232	+ 16
520	ϑ Centauri	2.26	K 0	14 2 33.285	+3.5243	− 439	−36 1 35.39	−17.776	− 530
522	*d* Bootis	4.82	F 5	14 7 12.437	+2.7370	− 12	+25 25 21.03	−17.105	− 69
524	4 Ursae min.	5.00	K 0	14 9 5.488	−0.2599	− 113	+77 52 35.28	−16.916	+ 32
523	κ Virginis	4.31	K 0	14 9 9.513	+3.1985	+ 4	− 9 56 55.36	−16.810	+ 134
525	ι Virginis	4.16	F 5	14 12 20.442	+3.1439	− 13	− 5 40 2.34	−17.225	− 431
526	α Bootis	0.24	K 0	14 12 28.074	+2.7361	− 776	+19 32 46.00	−18.789	−2001
528	[ι Bootis]	4.78	A 5	14 13 41.274	+2.1254	− 159	+51 41 22.22	−16.644	+ 86
527	λ Bootis	4.26	A 0	14 13 43.440	+2.2818	− 177	+46 24 32.56	−16.576	+ 152
529	[υ Centauri]	4.41	B 5	14 15 25.128	+4.1746	− 47	−56 3 55.12	−16.685	− 39
530	[Circini 10 G.]	5.71	A 2 p	14 19 16.244	+4.9458	− 41	−67 52 42.46	−16.492	− 36
531	ϑ Bootis	4.06	F 8	14 22 48.863	+2.0429	− 256	+52 10 25.17	−16.681	− 405
532	[52 Hydrae]	5.00	B 8	14 24 4.022	+3.5088	− 28	−29 10 40.89	−16.243	− 30
533	[φ Virginis]	4.97	K 0	14 24 35.618	+3.0902	− 90	− 1 54 54.21	−16.193	− 7
534	ρ Bootis	3.78	K 0	14 28 48.815	+2.5860	− 76	+30 40 40.39	−15.852	+ 113
535	γ Bootis	3.00	F 0	14 29 15.604	+2.4166	− 93	+38 36 49.21	−15.797	+ 144
536	[Grb 2125]	6.18	F 0	14 29 48.756	+1.6288	− 58	+60 32 0.91	−15.894	+ 18
537	η Centauri	2.65	B 3 p + A 2 p	14 31 3.187	+3.8023	− 36	−41 51 5.00	−15.882	− 36
538	*α Centauri	0.33 1.70	G 0 K 5	14 34 49.819	+4.0646	−4882	−60 32 51.28	−14.932	+ 710
540	[33 Bootis]	5.39	A 0	14 36 13.937	+2.2327	− 67	+44 42 21.35	−15.590	− 26
539	[α Circini]	3.41	F 0	14 36 49.500	+4.8256	− 320	−64 40 17.74	−15.770	− 239
541	[α Lupi]	2.89	B 2	14 37 15.822	+3.9816	− 20	−47 5 20.36	−15.543	− 36
543	ζ Bootis med.	4.83 4.43	A 2	14 37 48.313	+2.8645	+ 37	+14 1 39.41	−15.504	− 27
542	α Apodis	3.81	K 5	14 39 4.449	+7.3646	− 56	−78 44 59.34	−15.441	− 35
544	[c¹ Centauri]	4.13	K 0	14 39 22.096	+3.6634	− 61	−34 52 24.43	−15.588	− 198
545	μ Virginis	3.95	F 5	14 39 22.103	+3.1600	+ 69	− 5 21 17.66	−15.717	− 326
546	[*b* Lupi]	5.20	K 0	14 42 6.762	+4.1854	− 24	−52 5 18.63	−15.328	− 92
547	109 Virginis	3.76	A 0	14 42 42.488	+3.0322	− 75	+ 2 11 12.42	−15.241	− 39
548	α Librae	2.90	A 3	14 47 0.107	+3.3161	− 77	−15 45 7.05	−15.028	− 74
549	Grb 2164	5.67	K 2	14 49 39.641	+1.5210	− 170	+59 34 40.18	−14.669	+ 129
550	β Ursae min.	2.24	K 5	14 50 53.396	−0.1911	− 78	+74 26 29.66	−14.719	+ 7
551	Pi XIV, 221	5.77	A 0	14 52 54.933	+2.8313	− 10	+14 43 41.12	−14.623	− 18
552	β Lupi	2.81	B 2 p	14 53 56.203	+3.9209	− 51	−42 51 12.04	−14.604	− 60
553	[κ Centauri]	3.35	B 3	14 54 35.925	+3.8962	− 21	−41 49 28.38	−14.537	− 33
554	[2 H. Urs. min.]	4.86	M b	14 56 27.787	+0.9480	− 147	+66 12 39.58	−14.357	+ 34
555	β Bootis	3.63	G 5	14 59 18.553	+2.2600	− 36	+40 39 56.66	−14.259	− 43
556	γ Scorpii	3.41	M b	14 59 58.065	+3.5079	− 57	−25 0 29.18	−14.231	− 55
557	ψ Bootis	4.67	K 0	15 1 26.753	+2.5707	− 131	+27 13 10.61	−14.099	− 15
558	ζ Lupi	3.50	K 0	15 7 14.592	+4.2993	− 133	−51 50 2.91	−13.791	− 73
559	[ι Librae]	4.66	A 0 p	15 8 13.596	+3.4167	− 32	−19 31 40.90	−13.703	− 47

Nr. 538. Schwerpunkt des Systems. Abstand vom Schwerpunkt nach den Elementen von Lohse in den Publ. d. Astrophys. Obs. Potsdam No. 58

heller Stern:	1930.0	Δα = + 0s.361	Δδ = + 0".88
	1931.0	= + 0 .333	= + 0 .49

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
562	[3 Serpentis]	5.44	K 0	15 11 42.484	+2.9814	— 12	+ 5 11 53.10	—13.438	— 7
561	[β Circini]	4.16	A 3	15 12 1.073	+4.6832	—130	—58 32 28.77	—13.560	— 149
560	γ Triang. austr.	3.06	A 0	15 12 20.876	+5.5773	—101	—68 25 21.93	—13.426	— 37
563	δ Bootis	3.54	K 0	15 12 40.842	+2.4192	+ 73	+33 34 30.09	—13.489	— 121
564	β Librae	2.74	B 8	15 13 14.233	+3.2267	— 64	— 9 7 32.91	—13.359	— 27
565	1 H. Urs. min.	5.23	G 0	15 13 49.676	+0.6835	+387	+67 36 44.09	—13.688	— 396
566	φ¹ Lupi	3.59	K 5	15 17 21.422	+3.8014	— 82	—36 0 31.62	—13.155	— 95
569	γ Ursae min.	3.14	A 2	15 20 49.526	—0.1060	— 32	+72 4 59.04	—12.813	+ 16
568	μ Bootis	4.47 6.66	F 0 K 0	15 21 50.733	+2.2663	—123	+37 37 18.37	—12.680	+ 80
570	[τ¹ Serpentis]	5.46	M a	15 22 32.533	+2.7819	— 11	+15 40 22.80	—12.737	— 24
571	ι Draconis	3.47	K 0	15 23 22.202	+1.3335	— 5	+59 12 38.73	—12.643	+ 14
567	[κ¹ Apodis]	5.65	B 5 p	15 23 50.667	+6.5002	+ 5	—73 8 56.40	—12.662	— 37
572	β Coron. bor.	3.72	F 0 p	15 24 56.569	+2.4740	—131	+29 20 45.59	—12.474	+ 76
573	ν¹ Bootis	5.15	K 5	15 28 24.872	+2.1550	+ 10	+41 4 14.92	—12.325	— 13
576	[ϑ Coron. bor.]	4.17	B 5	15 30 6.378	+2.4189	— 17	+31 35 39.47	—12.221	— 26
574	[ε Triang. austr.]	4.11	K 0	15 30 17.409	+5.4687	+ 29	—66 5 1.16	—12.264	— 82
575	γ Lupi	2.95	B 3	15 30 28.041	+3.9911	— 26	—40 55 58.55	—12.209	— 39
577	γ Librae	4.02	K 0	15 31 36.423	+3.3540	+ 43	—14 33 26.21	—12.087	+ 3
578	α Coron. bor.	2.31	A 0	15 31 43.415	+2.5401	+ 93	+26 56 57.22	—12.180	— 98
579	[3 H. Scorpii]	3.78	K 2	15 32 46.150	+3.6383	— 11	—27 54 16.64	—12.020	— 11
580	[φ Bootis]	5.41	G 5	15 35 18.753	+2.1548	+ 58	+40 34 49.54	—11.778	+ 52
581	[γ Coron. bor.]	3.93	A 0	15 39 48.174	+2.5197	— 74	+26 30 58.56	—11.477	+ 34
582	α Serpentis	2.75	K 0	15 40 49.106	+2.9542	+ 91	+ 6 38 40.93	—11.396	+ 42
583	β Serpentis	3.74	A 2	15 42 57.368	+2.7688	+ 51	+15 38 22.99	—11.339	— 54
584	κ Serpentis	4.28	K 5	15 45 35.289	+2.7005	— 31	+18 21 23.67	—11.191	— 98
587	[12 H. Dracon.]	5.13	A 2	15 45 35.678	+0.9113	+ 55	+62 48 55.66	—11.154	— 61
585	μ Serpentis	3.63	A 0	15 45 57.881	+3.1296	— 59	— 3 13 2.17	—11.097	— 32
586	[χ Lupi]	4.11	B 9	15 46 30.253	+3.8076	— 15	—33 24 54.89	—11.057	— 30
590	ζ Ursae min.	4.34	A 2	15 46 31.110	—2.1762	+ 60	+78 0 38.38	—11.026	— 1
588	ε Serpentis	3.75	A 2	15 47 19.492	+2.9896	+ 84	+ 4 41 14.04	—10.907	+ 59
589	β Triang. austr.	3.04	F 0	15 48 57.465	+5.2713	—278	—63 12 59.56	—11.254	— 407
591	[γ Serpentis]	3.86	F 5	15 53 13.110	+2.7705	+213	+15 53 19.85	—11.826	—1294
592	[π Scorpii]	3.00	B 2	15 54 36.724	+3.6259	— 15	—25 54 50.86	—10.464	— 37
593	ε Coron. bor.	4.22	K 0	15 54 41.304	+2.4832	— 61	+27 4 46.18	—10.490	— 68
595	[Grb 2296]	4.96	A 5	15 56 7.596	+1.4210	—187	+54 56 49.03	—10.204	+ 111
594	δ Scorpii	2.54	B 0	15 56 11.420	+3.5450	— 8	—22 25 26.39	—10.346	— 36
598	ϑ Draconis	4.11	F 8	16 0 34.500	+1.1227	—402	+58 45 6.34	— 9.639	+ 339
597	β Scorpii	2.90 5.06	B 1	16 1 21.770	+3.4860	— 7	—19 36 55.05	— 9.946	— 27
596	[δ Normae]	4.84	A 3 p	16 1 32.137	+4.2335	— 5	—44 59 6.48	— 9.900	+ 6
599	[ϑ Lupi]	4.33	B 3	16 1 59.322	+3.9342	— 29	—36 36 47.80	— 9.912	— 41

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
601	[φ Herculis]	4.26	B 9 p	16 6 33.796	+1.8899	— 23	+45 7 3.22	—9.490	+ 31
600	[κ Normae]	5.09	K 0	16 7 56.667	+4.7197	— 42	—54 27 5.79	—9.480	— 65
602	[δ Triang. austr.]	4.03	G 0	16 9 3.053	+5.4468	+ 8	—63 30 32.06	—9.355	— 26
603	δ Ophiuchi	3.03	M a	16 10 40.508	+3.1428	— 30	— 3 30 55.58	—9.353	—150
606	19 Ursae min.	5.51	B 8	16 12 47.713	—1.7308	— 4	+76 3 16.18	—9.025	+ 12
604	γ² Normae	4.14	K 0	16 14 35.526	+4.4802	—190	—49 59 7.97	—8.959	— 61
605	ε Ophiuchi	3.34	K 0	16 14 36.908	+3.1729	+ 53	— 4 31 23.79	—8.864	+ 31
607	[σ Scorpii]	3.08	B 1	16 16 55.769	+3.6439	— 11	—25 25 35.12	—8.747	— 33
608	τ Herculis	3.91	B 5	16 17 38.138	+1.8029	— 9	+46 28 45.21	—8.626	+ 32
609	γ Herculis	3.79	F 0	16 18 49.852	+2.6458	— 36	+19 18 58.92	—8.524	+ 40
612	[η Ursae min.]	5.04	F 0	16 19 31.639	—1.7721	—219	+75 55 2.58	—8.253	+256
610	[ζ Triang. austr.]	4.93	G 0	16 20 54.792	+6.4303	+366	—69 55 45.18	—8.315	+ 84
613	[ω Herculis]	4.53	A 0 p	16 22 11.048	+2.7681	+ 28	+14 11 35.22	—8.366	— 68
611	γ Apodis	3.90	K 0	16 22 39.384	+9.1518	—384	—78 44 36.24	—8.331	— 71
614	[Grb 2343]	5.66	A 2	16 22 53.378	+1.3115	+ 19	+55 21 49.21	—8.223	+ 18
615	η Draconis	2.89	G 5	16 23 2.328	+0.8097	— 28	+61 40 20.33	—8.169	+ 61
616	α Scorpii	1.22	M a + A 3	16 25 6.693	+3.6763	— 7	—26 16 41.60	—8.092	— 28
618	β Herculis	2.81	K 0	16 27 12.589	+2.5786	— 69	+21 38 27.47	—7.916	— 21
617	[λ Ophiuchi]	3.85	A 0	16 27 22.866	+3.0248	— 23	+ 2 8 8.37	—7.972	— 90
619	*A* Draconis	4.98	B 8 p	16 28 6.661	—0.1239	— 51	+68 55 10.66	—7.788	+ 35
620	[τ Scorpii]	2.91	B 0	16 31 31.237	+3.7321	— 11	—28 4 20.71	—7.581	— 33
621	σ Herculis	4.25	A 0	16 31 50.746	+1.9341	— 6	+42 34 49.76	—7.483	+ 38
622	ζ Ophiuchi	2.70	B 0	16 33 18.125	+3.3023	+ 9	—10 25 36.24	—7.381	+ 22
623	[Grb 2373]	6.39	G 5	16 33 37.579	—2.6043	—321	+77 35 12.76	—7.102	+274
624	[24 Scorpii]	5.04	K 0	16 37 31.294	+3.4680	— 18	—17 36 29.27	—7.061	— 3
626	η Herculis	3.61	K 0	16 40 29.737	+2.0567	+ 35	+39 3 16.21	—6.899	— 84
625	α Triang. austr.	1.88	K 2	16 41 14.060	+6.3370	+ 32	—68 54 6.65	—6.803	— 49
627	Grb 2377	4.88	F 0	16 43 58.036	+1.1372	+ 28	+56 54 22.83	—6.471	+ 58
628	ε Scorpii	2.36	K 0	16 45 37.478	+3.8825	—501	—34 10 3.84	—6.646	—255
629	49 Herculis	6.41	A 0 p	16 48 53.579	+2.7310	+ 12	+15 5 25.30	—6.126	— 6
630	ζ² Scorpii	3.75	K 5	16 49 39.060	+4.2163	—133	—42 14 35.46	—6.294	—238
631	ζ Arae	3.06	K 5	16 52 49.171	+4.9581	— 30	—55 52 53.99	—5.839	— 48
632	[ε¹ Arae]	4.15	K 2	16 53 59.773	+4.7746	— 19	—53 3 18.09	—5.701	— 8
633	κ Ophiuchi	3.42	K 0	16 54 21.222	+2.8389	—198	+ 9 28 57.18	—5.676	— 13
634	ε Herculis	3.92	A 0	16 57 36.645	+2.2952	— 35	+31 1 42.29	—5.366	+ 24
635	[60 Herculis]	4.91	A 3	17 2 7.865	+2.7815	+ 34	+12 50 8.36	—5.022	— 15
636	[Grb 2415]	6.27	A 2	17 5 29.683	+1.9566	— 29	+40 36 24.11	—4.750	— 28
637	η Ophiuchi	2.63	A 2	17 6 21.679	+3.4391	+ 23	—15 38 23.18	—4.558	+ 90
638	[η Scorpii]	3.44	F 2	17 7 8.126	+4.2940	+ 17	—43 8 55.52	—4.881	—298
639	ζ Draconis	3.22	B 5	17 8 34.815	+0.1711	— 29	+65 48 2.71	—4.438	+ 22

Mittlere Sternörter 1930.0

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
640	α Herculis	3.48 5.39	M b	17 11 27.278	+2.7350	— 8	+14 28 7.72	—4.185	+ 29
641	δ Herculis	3.16	A 2	17 12 9.341	+2.4640	— 15	+24 55 14.24	—4.313	—159
643	π Herculis	3.36	K 5	17 12 36.500	+2.0894	— 21	+36 53 13.45	—4.114	+ 1
642	[ι Apodis]	5.60	B 8	17 14 16.631	+6.6804	— 14	—70 3 8.63	—3.999	— 27
644	ϑ Ophiuchi	3.37	B 3	17 17 42.483	+3.6828	— 7	—24 55 52.57	—3.703	— 25
645	β Arae	2.80	K 2	17 19 28.551	+4.9831	— 14	—55 27 57.31	—3.568	— 42
646	[*d* Ophiuchi]	4.37	F 5	17 22 52.896	+3.8290	+ 6	—29 48 19.22	—3.377	—145
647	[27 H. Ophiuchi]	4.61	F 0	17 22 54.975	+3.1830	— 58	— 5 1 34.34	—3.280	— 51
648	δ Arae	3.79	B 8	17 24 46.492	+5.4121	— 70	—60 37 39.49	—3.170	—101
650	[*x* Herculis]	5.81	A 2	17 24 52.873	+1.5899	+ 2	+48 19 4.29	—3.078	— 19
649	[υ Scorpii]	2.80	B 3	17 25 59.988	+4.0752	— 24	—37 14 30.35	—3.002	— 39
651	α Arae	2.97	B 3 p	17 26 25.598	+4.6347	— 38	—49 49 22.12	—3.019	— 94
653	β Draconis	2.99	G 0	17 28 51.011	+1.3552	— 15	+52 21 9.06	—2.706	+ 10
652	λ Scorpii	1.71	B 2	17 28 51.113	+4.0712	— 14	—37 3 16.08	—2.748	— 32
655	[ν¹ Draconis]	4.98	A 5	17 30 47.818	+1.1812	+176	+55 13 53.27	—2.496	+ 51
657	[ν² Draconis]	4.95	A 5	17 30 53.245	+1.1824	+181	+55 13 12.09	—2.487	+ 52
656	α Ophiuchi	2.14	A 5	17 31 41.044	+2.7842	+ 80	+12 36 34.69	—2.703	—233
659	[*f* Draconis]	5.21	K 0	17 32 14.429	—0.2434	— 33	+68 10 46.99	—2.288	+134
654	ϑ Scorpii	2.04	F 0	17 32 17.120	+4.3080	0	—42 57 18.94	—2.436	— 18
658	ξ Serpentis	3.64	A 5	17 33 34.602	+3.4340	— 34	—15 21 21.79	—2.370	— 65
664	ω Draconis	4.87	F 5	17 37 21.507	—0.3527	+ 10	+68 47 25.72	—1.654	+323
663	ι Herculis	3.79	B 3	17 37 29.284	+1.6933	— 5	+46 2 33.53	—1.969	— 4
660	[κ Scorpii]	2.51	B 2	17 37 38.545	+4.1482	— 15	—38 59 44.23	—1.979	— 26
662	[μ Arae]	5.26	G 5	17 38 34.997	+4.7607	— 29	—51 47 55.90	—2.078	—208
661	η Pavonis	3.58	K 0	17 38 51.441	+5.8847	— 22	—64 41 33.61	—1.902	— 56
665	β Ophiuchi	2.94	K 0	17 40 0.817	+2.9632	— 27	+ 4 35 42.36	—1.593	+153
666	[ι¹ Scorpii]	3.14	F 5 p	17 42 41.159	+4.1940	— 10	—40 6 5.61	—1.515	— 3
670	ψ Draconis	4.90 6.07	F 5	17 43 10.729	—1.0708	+ 31	+72 11 1.25	—1.737	—267
667	μ Herculis	3.48	G 5	17 43 43.057	+2.3472	—240	+27 45 37.81	—2.174	—751
668	[γ Ophiuchi]	3.74	A 0	17 44 22.917	+3.0077	— 16	+ 2 43 55.93	—1.442	— 77
669	[*G* Scorpii]	3.25	K 2	17 45 5.506	+4.0827	+ 41	—37 1 21.91	—1.277	+ 26
671	ξ Draconis	3.90	K 0	17 52 19.086	+1.0375	+120	+56 52 59.22	—0.595	+ 77
675	35 Draconis	5.04	F 5	17 52 34.789	—2.6887	+112	+76 58 23.67	—0.408	+241
672	ϑ Herculis	3.99	K 0	17 53 51.110	+2.0572	+ 4	+37 15 31.74	—0.533	+ 5
676	γ Draconis	2.42	K 5	17 54 58.805	+1.3927	— 9	+51 29 47.15	—0.461	— 22
674	[ξ Herculis]	3.82	K 0	17 55 2.655	+2.3312	+ 66	+29 15 15.19	—0.459	— 25
673	ν Ophiuchi	3.50	K 0	17 55 10.318	+3.3022	— 7	— 9 45 59.28	—0.540	—118
677	67 Ophiuchi	3.92	B 5 p	17 57 8.317	+3.0044	0	+ 2 56 0.72	—0.263	— 13
679	γ Sagittarii	3.07	K 0	18 1 18.601	+3.8530	— 47	—30 25 36.07	—0.080	—194
678	[Apodis 66 G.]	5.69	K 5	18 1 27.808	+8.3870	— 44	—75 53 46.58	—0.142	—270

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
680	72 Ophiuchi	3.73	A 3	18 4 1.826	+2.8439	− 42	+ 9 33 9.24	+0.431	+ 78
681	o Herculis	3.83	A 0	18 4 48.689	+2.3401	+ 2	+28 45 5.98	+0.421	0
682	μ Sagittarii	4.01	B 8 p	18 9 34.588	+3.5872	− 3	−21 4 43.64	+0.834	− 3
683	[η Sagittarii]	3.16	M b	18 12 53.374	+4.0587	− 117	−36 47 3.77	+0.964	−163
684	[Grb 2533]	5.42	B 5	18 13 28.092	+1.8655	− 6	+42 8 4.17	+1.170	− 7
685	[36 Draconis]	5.03	F 5	18 13 29.622	+0.3453	+ 533	+64 22 24.07	+1.210	+ 30
687	[δ Sagittarii]	2.84	K 0	18 16 30.750	+3.8408	+ 27	−29 51 34.27	+1.411	− 32
686	[ξ Pavonis]	4.25	K 2	18 16 46.504	+5.5277	− 26	−61 31 39.70	+1.483	+ 17
688	η Serpentis	3.42	K 0	18 17 41.228	+3.1036	− 372	− 2 55 6.32	+0.846	−699
689	ε Sagittarii	1.95	A 0	18 19 31.536	+3.9822	− 30	−34 25 9.75	+1.579	−127
690	109 Herculis	3.92	K 0	18 20 42.875	+2.5563	+ 140	+21 44 11.61	+1.552	−257
693	[φ Draconis]	4.24	A 0 p	18 21 45.789	−0.8591	− 17	+71 18 3.15	+1.934	+ 33
691	α Telescopii	3.76	B 3	18 21 46.993	+4.4487	− 21	−46 0 31.47	+1.855	− 48
695	χ Draconis	3.69	F 8	18 22 19.226	−1.0809	+1170	+72 42 10.44	+1.586	−363
694	*b* Draconis	4.85	A 2	18 22 53.316	+0.8764	− 45	+58 45 34.81	+2.057	+ 58
692	[λ Sagittarii]	2.94	K 0	18 23 39.019	+3.7021	− 37	−25 27 43.22	+1.877	−188
696	[2 H. Scuti]	4.73	A 3	18 25 12.449	+3.4189	− 3	−14 36 42.66	+2.203	+ 2
697	[ϑ Coron. austr.]	4.69	G 5	18 28 30.238	+4.2836	+ 15	−42 21 53.02	+2.463	− 24
700	[Grb 2655]	5.84	K 0	18 33 8.448	−2.8896	− 10	+77 29 37.17	+2.886	− 3
699	α Lyrae	0.14	A 0	18 34 34.090	+2.0314	+ 176	+38 43 3.07	+3.293	+281
698	ζ Pavonis	4.10	K 0	18 34 51.840	+7.0161	− 24	−71 29 28.24	+2.860	−178
701	[Grb 2640]	6.00	A 3	18 36 0.137	+0.1885	+ 18	+65 25 33.37	+3.220	+ 84
702	[5 H. Scuti]	5.09	G 5	18 39 42.521	+3.2672	+ 13	− 8 20 44.77	+3.465	+ 9
703	110 Herculis	4.26	F 5	18 42 38.914	−2.5813	− 12	+20 28 41.09	+3.368	−340
704	λ Pavonis	4.42	B 2	18 45 44.116	+5.5619	− 25	−62 16 12.47	+3.946	− 28
705	*β Lyrae	var.	B 8 p +B2p	18 47 29.715	+2.2149	+ 3	+33 16 49.56	+4.123	− 2
707	o Draconis	4.78	K 0	18 50 10.187	+0.8864	+ 105	+59 18 8.44	+4.377	+ 25
706	σ Sagittarii	2.14	B 3	18 50 55.518	+3.7199	+ 4	−26 23 7.28	+4.355	− 63
709	ϑ Serpent. pr.	4.50	A 5	18 52 44.371	+2.9823	+ 29	+ 4 6 39.99	+4.600	+ 28
708	λ Telescopii	5.03	B 9	18 52 51.941	+4.8016	+ 3	−53 1 54.85	+4.597	+ 14
711	**R* Lyrae	var.	M b	18 53 12.327	+1.8263	+ 28	+43 51 10.64	+4.688	+ 76
710	[ξ Sagittarii]	3.61	K 0	18 53 33.264	+3.5789	+ 18	−21 12 0.88	+4.625	− 16
714	[υ Draconis]	4.91	K 0	18 55 15.703	−0.7294	+ 103	+71 12 14.08	+4.827	+ 40
713	γ Lyrae	3.30	A 0 p	18 56 19.472	+2.2438	− 4	+32 35 32.94	+4.875	− 2
712	[ε Aquilae]	4.21	K 0	18 56 26.683	+2.7221	− 42	+14 58 18.94	+4.807	− 80
715	[ζ Sagittarii]	2.71	A 2	18 58 9.523	+3.8171	− 21	−29 58 54.27	+5.034	+ 2
716	ζ Aquilae	3.02	A 0	19 2 11.541	+2.7570	− 7	+13 45 29.17	+5.272	−101
717	λ Aquilae	3.55	B 9	19 2 32.055	+3.1836	− 16	− 4 59 19.95	+5.315	− 87
718	α Coron. austr.	4.12	A 2	19 4 42.671	+4.0821	+ 59	−38 0 55.07	+5.475	−109
719	[ι Lyrae]	5.13	B 5	19 4 48.214	+2.1407	− 3	+35 59 21.96	+5.589	− 3

Nr. 705. Größe: Max. 3.4, Min. 4.1 Nr. 711. Größe: Max. 4.0, Min. 4.7, Größe in Harvard 50 = 4.32

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
720	π Sagittarii	3.02	F 2	19 5 36.099	+3.5680	− 5	−21 8 11.11	+ 5.624	− 35
721	[Pavonis 60 G.]	5.57	A 2	19 10 10.400	+6.0427	− 7	−66 47 3.43	+ 6.021	− 21
723	δ Draconis	3.24	K 0	19 12 32.633	+0.0179	+ 167	+67 32 18.04	+ 6.327	+ 88
722	[*d* Sagittarii]	5.03	K 0	19 13 32.419	+3.5103	− 12	−19 4 44.03	+ 6.313	− 9
724	ϑ Lyrae	4.46	K 0	19 13 56.265	+2.0817	− 7	+38 0 29.04	+ 6.354	− 1
725	ω Aquilae	5.14	A 5	19 14 31.836	+2.8157	− 3	+11 28 4.53	+ 6.417	+ 13
726	κ Cygni	3.98	K 0	19 15 29.153	+1.3872	+ 69	+53 14 19.00	+ 6.603	+ 119
729	τ Draconis	4.63	K 0	19 16 54.586	−1.1457	− 326	+73 13 33.75	+ 6.710	+ 109
727	[υ Sagittarii]	4.58	B 8 p + F 2 p	19 17 43.168	+3.4364	0	−16 5 15.98	+ 6.666	− 2
728	α Sagittarii	4.11	B 8	19 19 2.326	+4.1583	+ 18	−40 44 57.29	+ 6.658	− 118
730	δ Aquilae	3.44	F 0	19 21 58.142	+3.0246	+ 167	+ 2 58 26.02	+ 7.099	+ 81
731	[Sagittar. 186 G.]	5.68	B 9	19 22 31.159	+3.7923	+ 7	−29 52 59.40	+ 7.015	− 47
734	[Grb 2900]	6.00	A 2	19 25 57.819	−3.6027	+ 96	+79 27 50.35	+ 7.308	− 35
732	*β Cygni	3.24	K 0 + A 0	19 27 53.871	+2.4190	− 2	+27 48 41.56	+ 7.493	− 8
733	ι Cygni	3.94	A 2	19 27 56.499	+1.5129	+ 22	+51 34 47.60	+ 7.629	+ 125
735	[ι Telescopii]	5.02	K 0	19 30 1.563	+4.4520	− 41	−48 15 6.41	+ 7.633	− 40
736	*h* Sagittarii	4.66	B 9	19 32 26.951	+3.6516	+ 46	−25 2 22.52	+ 7.846	− 22
737	[κ Aquilae]	5.04	B 0	19 33 7.596	+3.2279	+ 3	− 7 11 3.84	+ 7.923	0
738	ϑ Cygni	4.64	F 5	19 34 33.842	+1.6081	− 29	+50 3 29.30	+ 8.285	+ 247
740	[15 Cygni]	5.02	K 0	19 41 45.097	+2.1633	+ 59	+37 11 3.64	+ 8.645	+ 36
739	[ν Telescopii]	5.52	A 5	19 42 18.646	+4.9048	+ 86	−56 31 57.37	+ 8.517	− 137
742	δ Cygni	2.97	A 0	19 42 47.248	+1.8756	+ 51	+44 57 32.38	+ 8.731	+ 40
741	γ Aquilae	2.80	K 2	19 42 55.898	+2.8519	+ 9	+10 26 29.43	+ 8.703	0
743	δ Sagittae	3.78	M a + A 0	19 44 15.978	+2.6749	+ 4	+18 21 37.71	+ 8.821	+ 13
744	[51 Aquilae]	5.55	F 0	19 46 55.791	+3.3015	− 21	−10 56 32.36	+ 9.058	+ 41
745	α Aquilae	0.89	A 5	19 47 22.067	+2.9268	+ 360	+ 8 40 56.08	+ 9.434	+ 383
747	ε Draconis	3.99	K 0	19 48 25.157	−0.1957	+ 156	+70 5 22.60	+ 9.162	+ 30
746	*[η Aquilae]	var.	G 0 p	19 48 54.460	+3.0564	+ 6	+ 0 49 28.94	+ 9.162	− 9
749	β Aquilae	3.90	K 0	19 51 52.481	+2.9465	+ 25	+ 6 13 50.64	+ 8.921	− 480
748	ε Pavonis	4.10	A 0	19 52 31.512	+6.9658	+ 147	−73 5 51.76	+ 9.319	− 132
750	ψ Cygni	4.80	A 3	19 53 49.229	+1.5511	− 43	+52 15 8.72	+ 9.520	− 31
751	ϑ¹ Sagittarii	4.39	B 3	19 55 10.963	+3.9060	− 12	−35 28 1.67	+ 9.620	− 36
752	γ Sagittae	3.71	K 5	19 55 38.614	+2.6675	+ 43	+19 18 3.32	+ 9.715	+ 24
753	[*c* Sagittarii]	4.60	M b	19 58 21.388	+3.6904	+ 21	−27 54 21.05	+ 9.915	+ 18
754	δ Pavonis	3.64	G 5	20 1 52.547	+5.9008	+1963	−66 21 46.00	+ 9.003	−1161
755	[ξ Telescopii]	4.86	M a	20 2 1.714	+4.6010	− 44	−53 4 58.57	+10.173	− 2
756	ϑ Aquilae	3.37	A 0	20 7 41.621	+3.0954	+ 22	− 1 1 49.13	+10.605	+ 6
759	κ Cephei	4.40	B 9	20 11 16.705	−1.9920	+ 12	+77 30 5.04	+10.891	+ 27
757	o¹ Cygni sq.	3.95	K 0 + B 8	20 11 25.640	+1.8892	+ 4	+46 31 41.57	+10.876	+ 1
758	[33 Cygni]	4.32	A 3	20 11 46.301	+1.3954	+ 74	+56 21 10.97	+10.985	+ 85

Nr. 732. Größe und Spektrum beziehen sich auf die hellere Komponente. Die entsprechenden Werte für die schwächeren Komponente sind 5.36 und B9. Nr. 746. Größe: Max. 3.7, Min. 4.5

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″,001
		M		h m s	s		° ′ ″	″	
760	24 Vulpeculae	5.45	K 0	20 13 47.353	+2.5671	+ 12	+24 27 15.91	+11.028	− 19
761	α² Capricorni	3.77	G 5	20 14 10.341	+3.3292	+ 40	−12 45 46.70	+11.087	+ 11
762	[β Capricorni]	3.25	G 0 + A 0	20 17 4.796	+3.3711	+ 23	−15 0 13.17	+11.293	+ 6
763	[κ¹ Sagittarii]	5.64	A 0	20 17 42.712	+4.0786	+ 37	−42 16 18.10	+11.236	− 96
765	γ Cygni	2.32	F 8 p	20 19 42.926	+2.1529	+ 4	+40 1 54.40	+11.477	0
764	α Pavonis	2.12	B 3	20 20 7.287	+4.7564	+ 11	−56 57 39.27	+11.420	− 85
766	[ρ Capricorni]	4.96	F 0	20 24 52.195	+3.4228	− 14	−18 2 46.50	+11.827	− 16
767	ϑ Cephei	4.28	A 5	20 28 24.618	+1.0091	+ 63	+62 45 30.23	+12.078	− 14
768	ε Delphini	3.98	B 5	20 29 52.123	+2.8660	+ 5	+11 3 51.23	+12.168	− 25
770	73 Draconis	5.18	A 2 p	20 32 27.143	−0.7727	+ 16	+74 42 54.08	+12.360	− 12
769	α Jndi	3.21	K 0	20 32 38.986	+4.2243	+ 33	−47 32 13.34	+12.445	+ 60
771	β Delphini	3.72	F 5	20 34 15.982	+2.8130	+ 74	+14 21 2.02	+12.460	− 36
772	[κ Delphini]	5.23	G 5	20 35 43.772	+2.9138	+ 212	+ 9 50 18.84	+12.614	+ 18
773	υ Capricorni	5.33	M a	20 36 4.039	+3.4162	− 17	−18 23 10.67	+12.603	− 16
774	α Delphini	3.86	B 8	20 36 23.200	+2.7865	+ 45	+15 39 50.47	+12.635	− 6
775	β Pavonis	3.60	A 5	20 38 40.358	+5.4266	− 71	−66 27 23.59	+12.797	+ 1
776	[η Jndi]	4.70	F 0	20 38 54.441	+4.4122	+ 157	−52 10 21.41	+12.738	− 73
777	α Cygni	1.33	A 2 p	20 39 2.700	+2.0450	+ 4	+45 1 45.82	+12.819	− 1
778	[δ Delphini]	4.53	A 5	20 40 11.451	+2.8008	− 14	+14 49 20.54	+12.849	− 48
779	[ψ Capricorni]	4.26	F 8	20 41 57.251	+3.5538	− 44	−25 31 25.36	+12.857	− 157
780	ε Cygni	2.64	K 0	20 43 22.700	+2.4275	+ 290	+33 42 25.87	+13.437	+ 328
782	[6 H. Cephei]	4.63	G 0	20 43 36.911	+1.4893	− 87	+57 19 40.67	+12.890	− 234
783	η Cephei	3.59	K 0	20 43 52.131	+1.2224	+ 131	+61 33 59.13	+13.960	+ 819
781	ε Aquarii	3.83	A 0	20 43 53.283	+3.2481	+ 17	− 9 45 11.03	+13.115	− 28
784	λ Cygni	4.47	B 5	20 44 40.860	+2.3363	+ 5	+36 13 57.82	+13.195	0
785	β Jndi	3.72	K 0	20 49 21.055	+4.6987	0	−58 43 10.82	+13.472	− 27
786	32 Vulpeculae	5.24	K 5	20 51 34.559	+2.5566	− 4	+27 47 25.87	+13.644	+ 1
788	ν Cygni	4.04	A 0	20 54 33.753	+2.2362	+ 9	+40 53 48.51	+13.816	− 17
787	[α Octantis]	5.24	F 2	20 56 17.925	+7.3291	− 13	−77 17 33.67	+13.588	− 355
789	[11 Aquarii]	6.26	G 0	20 56 52.728	+3.1590	+ 23	− 5 0 6.08	+13.846	− 133
790	ζ Microscopii	5.35	F 0	20 58 29.871	+3.8369	− 36	−38 54 22.05	+13.959	− 122
792	[ξ Cygni]	3.92	K 5	21 2 23.044	+2.1822	+ 12	+43 38 51.93	+14.317	− 3
791	[A Capricorni]	4.60	M a	21 3 2.176	+3.5104	− 30	−25 17 12.58	+14.313	− 47
793	61 Cygni pr.	5.57	K 5	21 3 45.441	+2.6868	+3505	+38 24 15.60	+17.660	+3256
794	ν Aquarii	4.52	K 0	21 5 46.994	+3.2691	+ 62	−11 39 21.96	+14.517	− 9
795	Br 2777	5.90	B 9	21 6 55.945	−1.1713	+ 74	+77 50 34.53	+14.632	+ 36
797	ζ Cygni	3.40	K 0	21 9 57.356	+2.5527	− 1	+29 56 20.18	+14.717	− 59
798	[Grb 3415]	5.65	B 2	21 10 1.355	+1.5276	− 6	+59 41 53.46	+14.778	− 2
796	[Jndi 23 G.]	5.84	A 5	21 10 46.288	+4.2890	− 19	−53 33 15.82	+14.778	− 46
799	[τ Cygni]	3.82	F 0	21 11 59.740	+2.3943	+ 137	+37 44 45.14	+15.331	+ 435

Mittlere Sternörter 1930.0

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
800	α Equulei	4.14	F 8 + A 3	21 12 19.512	+2.9992	+ 38	+ 4 57 26.89	+14.828	— 87
801	[4 Pisc. austr.]	4.79	A 0	21 13 41.861	+3.6406	+ 35	—32 27 58.07	+14.968	— 26
802	[ϑ¹ Microscop.]	4.92	A 2 p	21 16 17.443	+3.8438	+ 70	—41 6 22.72	+15.158	+ 14
803	α Cephei	2.60	A 5	21 16 54.598	+1.4327	+ 212	+62 17 18.70	+15.229	+ 50
804	1 Pegasi	4.24	K 0	21 18 50.914	+2.7742	+ 74	+19 30 14.75	+15.351	+ 61
805	γ Pavonis	4.30	F 8	21 20 40.644	+4.9800	+ 129	—65 41 3.84	+16.181	+ 788
806	ζ Capricorni	3.86	G 5 p	21 22 40.442	+3.4273	— 1	—22 42 56.03	+15.527	+ 23
807	[g Cygni]	5.34	K 0	21 26 51.897	+2.2135	+ 48	+46 13 52.38	+15.837	+ 103
809	β Cephei	3.32	B 1	21 27 45.871	+0.7800	+ 20	+70 15 11.45	+15.789	+ 7
808	β Aquarii	3.07	G 0	21 27 52.509	+3.1588	+ 11	— 5 52 48.02	+15.784	— 5
810	ν Octantis	3.74	K 0	21 33 45.555	+6.7377	+ 134	—77 42 9.44	+15.844	— 256
811	74 Cygni	5.09	A 5	21 34 8.488	+2.4038	— 3	+40 5 54.04	+16.132	+ 12
812	[γ Capricorni]	3.80	F 0 p	21 36 12.924	+3.3255	+ 131	—16 58 45.53	+16.211	— 16
813	[13 H. Cephei]	5.64	Oe 5	21 36 47.304	+1.8619	+ 7	+57 10 19.20	+16.259	+ 2
815	ε Pegasi	2.54	K 0	21 40 44.866	+2.9464	+ 18	+ 9 33 11.60	+16.456	0
814	[ι Pisc.austr.]	4.35	A 0	21 40 46.898	+3.5766	+ 18	—33 20 45.70	+16.369	— 89
817	[11 Cephei]	4.85	K 0	21 40 54.167	+0.8842	+ 234	+70 59 19.87	+16.562	+ 98
816	[κ Pegasi]	4.27	F 5	21 41 28.438	+2.7160	+ 25	+25 19 21.05	+16.502	+ 10
818	[λ Capricorni]	5.43	A 0	21 42 46.157	+3.2307	+ 20	—11 41 22.43	+16.553	— 4
819	δ Capricorni	2.98	A 5	21 43 10.775	+3.3125	+ 178	—16 26 44.84	+16.284	— 294
821	π² Cygni	4.26	B 3	21 44 12.325	+2.2157	+ 8	+48 59 5.98	+16.624	— 4
820	[o Jndi]	5.50	K 2	21 44 53.551	+5.1006	— 87	—69 57 23.51	+16.640	— 21
822	γ Gruis	3.16	B 8	21 49 41.722	+3.6365	+ 77	—37 41 41.93	+16.872	— 18
823	16 Pegasi	5.05	B 3	21 49 52.546	+2.7291	+ 4	+25 35 42.34	+16.901	+ 1
824	[δ Jndi]	4.56	F 0	21 53 9.909	+4.0925	+ 43	—55 19 35.81	+17.023	— 29
826	[20 Pegasi]	5.66	F 2	21 57 40.693	+2.9222	+ 36	+12 47 1.86	+17.202	— 54
825	[ε Jndi]	4.74	K 5	21 58 1.151	+4.6010	+4809	—57 4 29.26	+14.695	—2577
827	α Aquarii	3.19	G 0	22 2 11.352	+3.0814	+ 10	— 0 39 38.28	+17.447	— 7
828	ι Aquarii	4.35	B 8	22 2 39.527	+3.2410	+ 24	—14 12 35.91	+17.423	— 51
830	20 Cephei	5.39	K 5	22 2 52.773	+1.8226	+ 22	+62 26 37.34	+17.544	+ 60
831	[ι Pegasi]	3.96	F 5	22 3 45.040	+2.7920	+ 219	+25 0 9.02	+17.543	+ 22
829	α Gruis	2.16	B 5	22 3 49.782	+3.7878	+ 119	—47 18 3.86	+17.353	— 171
832	[μ Pisc. austr.]	4.62	A 2	22 4 18.163	+3.5020	+ 41	—33 19 51.38	+17.503	— 41
833	[27 Pegasi]	5.65	K 0	22 6 7.432	+2.6577	— 42	+32 49 47.15	+17.555	— 65
834	ϑ Pegasi	3.70	A 2	22 6 40.130	+3.0263	+ 184	+ 5 51 10.03	+17.674	+ 31
835	π Pegasi	4.38	F 5	22 6 52.585	+2.6634	— 9	+32 50 2.84	+17.633	— 19
836	ζ Cephei	3.62	K 0	22 8 25.362	+2.0794	+ 14	+57 51 20.53	+17.721	+ 6
837	24 Cephei	4.99	G 5	22 8 27.937	+1.1553	+ 54	+71 59 46.15	+17.725	+ 8
838	[λ Pisc.austr.]	5.40	B 9	22 10 20.957	+3.4032	+ 16	—28 6 52.66	+17.793	— 1
839	[ε Octantis]	5.11	M b	22 12 16.448	+6.8191	+ 137	—80 47 21.91	+17.830	— 40

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
840	ϑ Aquarii	4.32	K 0	22 13 8.482	+3.1664	+ 76	− 8 7 57.01	+17.886	− 19
841	α Tucanae	2.91	K 2	22 13 43.307	+4.1243	− 98	−60 36 33.84	+17.878	− 49
842	γ Aquarii	3.97	A 0	22 18 2.477	+3.0987	+ 83	− 1 44 26.74	+18.100	+ 7
843	[31 Pegasi]	4.93	B 3 p	22 18 4.283	+2.9521	− 1	+11 51 6.79	+18.103	+ 9
844	3 Lacertae	4.58	K 0	22 20 48.224	+2.3572	− 15	+51 52 40.01	+18.005	−191
845	[ν Gruis]	5.48	K 0	22 24 33.361	+3.5207	+ 24	−39 29 11.85	+18.169	−162
846	[δ¹ Gruis]	4.02	G 5	22 25 5.544	+3.5912	+ 17	−43 51 14.07	+18.342	− 8
847	*[δ Cephei]	var.	verän.	22 26 34.076	+2.2248	+ 17	+58 3 23.21	+18.404	+ 2
848	7 Lacertae	3.85	A 0	22 28 24.236	+2.4696	+ 147	+49 55 19.59	+18.481	+ 17
849	[υ Aquarii]	5.29	F 5	22 30 52.077	+3.2836	+ 155	−21 4 2.57	+18.404	−144
850	η Aquarii	4.13	B 8	22 31 45.591	+3.0830	+ 59	− 0 28 43.99	+18.521	− 55
851	[31 Cephei]	5.22	F 0	22 34 2.367	+1.4816	+ 383	+73 16 46.25	+18.674	+ 23
852	10 Lacertae	4.91	Oe 5	22 36 7.031	+2.6904	+ 4	+38 41 7.62	+18.710	− 6
853	[30 Cephei]	5.21	A 2	22 36 9.835	+2.1259	+ 1	+63 13 12.80	+18.697	− 22
854	[ε Pisc.austr.]	4.22	B 8	22 36 47.231	+3.3202	+ 12	−27 24 33.16	+18.740	+ 2
855	ζ Pegasi	3.61	B 8	22 37 58.206	+2.9918	+ 53	+10 27 55.43	+18.761	− 13
856	β Gruis	2.24	M b	22 38 29.642	+3.5880	+ 117	−47 15 5.29	+18.765	− 25
857	η Pegasi	3.10	G 0	22 39 43.093	+2.8109	+ 12	+29 51 16.40	+18.794	− 33
858	[13 Lacertae]	5.24	K 0	22 40 57.941	+2.6733	− 6	+41 27 5.15	+18.869	+ 5
859	λ Pegasi	4.14	K 0	22 43 9.435	+2.8885	+ 41	+23 11 48.44	+18.918	− 10
860	ε Gruis	3.69	A 2	22 44 20.068	+3.6308	+ 96	−51 41 8.00	+18.889	− 73
861	[τ Aquarii]	4.21	K 5	22 45 53.250	+3.1773	− 12	−13 57 45.10	+18.972	− 33
862	[μ Pegasi]	3.67	K 0	22 46 37.351	+2.8945	+ 109	+24 13 53.46	+18.985	− 41
863	ι Cephei	3.68	K 0	22 47 10.963	+2.1312	− 114	+65 49 54.92	+18.918	−123
864	λ Aquarii	3.84	M a	22 48 57.820	+3.1303	+ 5	− 7 57 9.20	+19.127	+ 38
865	ρ Indi	6.14	G 0	22 49 48.812	+4.1972	− 101	−70 26 53.72	+19.174	+ 62
866	δ Aquarii	3.51	A 2	22 50 56.226	+3.1847	− 33	−16 11 36.60	+19.122	− 19
867	α Pisc. austr.	1.29	A 3	22 53 47.157	+3.3174	+ 247	−29 59 36.99	+19.055	−159
868	[ζ Gruis]	4.18	G 5	22 56 45.387	+3.5503	− 80	−53 7 47.99	+19.270	− 16
869	o Androm.	3.63	B 5 + A 2 p	22 58 41.773	+2.7579	+ 25	+41 56 57.48	+19.319	− 13
870	β Pegasi	2.61	M a	23 0 22.680	+2.9069	+ 145	+27 42 9.73	+19.507	+138
871	α Pegasi	2.57	A 0	23 1 16.335	+2.9873	+ 41	+14 49 41.64	+19.349	− 41
872	ϑ Gruis	4.35	F 5	23 2 56.491	+3.3846	− 52	−43 53 56.65	+19.388	− 38
874	π Cephei	4.56	G 5	23 5 39.950	+1.9038	+ 29	+75 0 32.07	+19.458	− 25
873	c² Aquarii	3.80	K 0	23 5 42.994	+3.2000	+ 32	−21 33 9.74	+19.521	+ 36
875	Br 3077	5.65	K 2	23 9 54.273	+2.8836	+2532	+56 46 53.66	+19.863	+296
876	[Tucanae 25 G.]	5.69	G 0	23 12 45.893	+3.6187	+ 231	−62 22 0.24	+19.567	− 53
877	γ Tucanae	4.10	F 2	23 13 21.227	+3.5098	− 59	−58 37 11.32	+19.713	+ 82
878	[γ Piscium]	3.85	K 0	23 13 32.156	+3.1096	+ 503	+ 2 53 58.04	+19.652	+ 18
879	γ Sculptoris	4.51	K 0	23 15 2.882	+3.2424	+ 10	−32 54 49.24	+19.593	− 68

Nr. 847. Spektrum wechselt von F 5 bis G 0.

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
880	τ Pegasi	4.65	A 5	23 17 10.171	+2.9678	+ 21	+23 21 24.55	+19.682	− 13
882	4 Cassiopeiae	5.20	K 5	23 21 43.178	+2.6586	+ 17	+61 53 53.77	+19.755	− 10
881	[υ Pegasi]	4.57	G 0	23 21 52.970	+2.9927	+138	+23 1 6.42	+19.803	+ 35
883	[ο Gruis]	5.54	F 0	23 22 41.852	+3.3610	− 4	−53 6 33.96	+19.898	+119
884	κ Piscium	4.94	A 2 p	23 23 20.629	+3.0753	+ 56	+ 0 52 19.73	+19.695	− 93
885	70 Pegasi	4.67	K 0	23 25 36.760	+3.0329	+ 38	+12 22 26.71	+19.847	+ 28
886	[β Sculptoris]	4.46	B 9	23 29 13.307	+3.2203	+ 65	−38 12 20.64	+19.878	+ 14
887	[72 Pegasi]	5.21	K 2	23 30 28.586	+2.9740	+ 40	+30 56 19.73	+19.866	− 12
888	[Aquarii 248 G.]	6.51	K 0	23 31 55.447	+3.0949	− 5	− 7 51 7.20	+19.917	+ 23
889	[Phoenicis 11 G.]	4.86	A 2	23 34 5.182	+3.2331	+ 47	−45 52 48.81	+19.879	− 37
890	[λ Androm.]	4.00	K 0	23 34 7.890	+2.9322	+156	+46 4 43.27	+19.494	−423
891	ι Androm.	4.28	B 8	23 34 41.843	+2.9388	+ 27	+42 52 49.10	+19.917	− 5
892	ι Piscium	4.28	F 8	23 36 20.922	+3.0850	+247	+ 5 14 47.88	+19.498	−440
893	γ Cephei	3.42	K 0	23 36 27.561	+2.4494	−184	+77 14 29.91	+20.096	+157
894	ω² Aquarii	4.62	A 0	23 39 5.617	+3.1118	+ 65	−14 55 55.50	+19.898	− 63
895	41 H. Cephei	5.02	A 0	23 44 33.045	+2.8588	+ 23	+67 25 4.13	+20.000	+ 1
896	Lac. δ Sculpt.	4.64	A 0	23 45 16.938	+3.1266	+ 71	−28 31 3.11	+19.898	−105
897	[Aquarii 268 G.]	6.08	K 0	23 46 38.012	+3.0957	+ 86	−10 21 53.70	+20.097	+ 86
898	φ Pegasi	5.23	M a	23 48 55.431	+3.0502	− 8	+18 43 53.00	+19.982	− 39
899	[ρ Cassiopeiae]	4.85	F 8 p	23 50 52.581	+2.9899	− 7	+57 6 35.75	+20.032	+ 4
900	[27 Piscium]	5.07	K 0	23 55 5.349	+3.0712	− 37	− 3 56 39.74	+19.971	− 68
901	[π Phoenicis]	5.14	K 0	23 55 18.409	+3.1123	+ 30	−53 8 13.68	+20.086	+ 46
902	ω Piscium	4.03	F 5	23 55 42.919	+3.0800	+100	+ 6 28 32.71	+19.931	−109
903	ε Tucanae	4.71	B 9	23 56 17.395	+3.1278	+ 64	−65 58 0.09	+20.009	− 33
904	[ϑ Octantis]	4.73	K 0	23 58 1.162	+3.1029	−219	−77 27 7.87	+19.873	−171

Nördliche Polsterne

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
Na	43 H. Cephei	4.52	K 0	0 58 50.18	+ 7.862	+ 76	+85 52 57.42	+19.386	− 2
Nb	α Ursae min.	2.12	F 8	1 36 52.62	+32.536	+153	+88 55 42.65	+18.281	+ 1
Nc	*Grb 750	6.70	F 8	4 13 53.17	+17.849	+ 16	+85 22 8.50	+ 8.985	+ 32
Nd	51 H. Cephei	5.26	M a	7 8 21.21	+28.782	− 51	+87 9 40.84	− 5.925	− 35
Ne	1 H. Dracon.	4.58	K 2	9 27 15.26	+ 8.687	− 6	+81 38 17.12	−15.775	− 20
Nf	[30 H. Camel.]	5.34	F 2	10 22 42.37	+ 7.456	− 46	+82 54 58.06	−18.234	+ 31
Ng	ε Ursae min.	4.40	G 5	16 53 4.56	− 6.208	+ 7	+82 9 18.79	− 5.764	+ 6
Nh	δ Ursae min.	4.44	A 0	17 54 47.88	−19.488	+ 15	+86 36 48.63	− 0.398	+ 57
Ni	λ Ursae min.	6.55	M b	18 46 45.78	−74.669	− 99	+89 2 4.05	+ 4.068	+ 7
Nk	76 Draconis	5.69	A 0	20 47 45.97	− 4.237	+ 16	+82 16 24.87	+13.424	+ 27

Nr. Nc. Größe aus Harvard 54 entnommen.

Südliche Polsterne

Nr.	Name	Gr.	Spektrum	AR. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.001	Dekl. 1930.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
Sa	Octantis 4 G.	5.63	K 0	1 41 14.90	− 3.606	+ 18	−85 7 25.44	+18.154	+ 34
Sb	[ξ Mensae]	5.85	K 0	5 6 46.45	− 6.899	− 4	−82 34 0.32	+ 4.627	+ 14
Sc	ζ Octantis	5.38	F 0	9 7 11.74	− 8.354	− 94	−85 23 7.30	−14.562	+ 49
Sd	ι Octantis	5.38	K 0	12 47 25.86	+ 6.100	+ 42	−84 44 37.28	−19.591	+ 25
Se	Octantis 20 G.	6.52	A 2	14 51 57.88	+27.363	−183	−87 52 3.98	−14.731	− 69
Sf	Octantis 26 G.	6.13	A 0	16 34 25.14	+22.027	+ 5	−86 14 35.66	− 7.314	− 2
Sg	χ Octantis	5.22	K 0	18 13 56.26	+35.651	− 86	−87 39 42.06	+ 1.089	−129
Sh	σ Octantis	5.48	F 0	19 47 31.25	+87.975	+109	−89 11 40.81	+ 9.063	+ 1
Si	β Octantis	4.34	F 0	22 39 0.80	+ 6.236	− 26	−81 44 58.14	+18.808	+ 3
Sk	τ Octantis	5.56	K 0	23 18 17.27	+ 9.588	+ 20	−87 52 2.11	+19.729	+ 15

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Scheinbare Sternörter 1930

Tag	1) α Andromedae AR.		1) α Andromedae Dekl.		2) β Cassiopeiae AR.		2) β Cassiopeiae Dekl.		3) ε Phoenicis AR.		3) ε Phoenicis Dekl.		7) γ Pegasi AR.		7) γ Pegasi Dekl.	
1930	0h 4m		+28° 42′		0h 5m		+58° 45′		0h 5m		−46° 7′		0h 9m		+14° 47′	
Jan. 0	44.819	134	19.00	87	24.123	312	61.99	68	51.302	185	81.25	40	36.804	110	39.81	78
10	44.685	127	18.13	113	23.811	300	61.31	120	51.117	170	80.85	85	36.694	104	39.03	90
20	44.558	116	17.00	134	23.511	275	60.11	166	50.947	149	80.00	130	36.590	95	38.13	96
30	44.442	97	15.66	148	23.236	239	58.45	206	50.798	122	78.70	170	36.495	79	37.17	99
Feb. 9	44.345	72	14.18	158	22.997	190	56.39	237	50.676	89	77.00	207	36.416	59	36.18	97
19	44.273	41	12.60	158	22.807	130	54.02	257	50.587	53	74.93	239	36.357	32	35.21	90
März 1	44.232	5	11.02	151	22.677	62	51.45	267	50.534	11	72.54	267	36.325	1	34.31	76
11	44.227	37	9.51	137	22.615	14	48.78	265	50.523	36	69.87	288	36.324	35	33.55	59
21	44.264	82	8.14	116	22.629	94	46.13	251	50.559	85	66.99	304	36.359	76	32.96	35
31	44.346	129	6.98	87	22.723	173	43.62	228	50.644	137	63.95	315	36.435	117	32.61	7
Apr. 10	44.475	175	6.11	54	22.896	251	41.34	195	50.781	188	60.80	318	36.552	160	32.54	22
20	44.650	220	5.57	18	23.147	322	39.39	155	50.969	239	57.62	316	36.712	200	32.76	54
30	44.870	260	5.39	21	23.469	385	37.84	108	51.208	285	54.46	307	36.912	238	33.30	85
Mai 10	45.130	294	5.60	60	23.854	437	36.76	57	51.493	328	51.39	291	37.150	271	34.15	116
20	45.424	322	6.20	99	24.291	477	36.19	5	51.821	365	48.48	268	37.421	298	35.31	144
30	45.746	340	7.19	136	24.768	503	36.14	48	52.186	391	45.80	240	37.719	316	36.75	170
Juni 9	46.086	351	8.55	168	25.271	516	36.62	100	52.577	410	43.40	205	38.035	328	38.45	190
19	46.437	352	10.23	196	25.787	514	37.62	149	52.987	419	41.35	166	38.363	330	40.35	206
29	46.789	343	12.19	220	26.301	500	39.11	195	53.406	416	39.69	122	38.693	325	42.41	216
Juli 9	47.132	328	14.39	237	26.801	473	41.06	235	53.822	402	38.47	77	39.018	311	44.57	222
19	47.460	304	16.76	250	27.274	436	43.41	270	54.224	379	37.70	29	39.329	291	46.79	222
29	47.764	274	19.26	256	27.710	389	46.11	299	54.603	345	37.41	20	39.620	263	49.01	217
Aug. 8	48.038	238	21.82	257	28.099	336	49.10	320	54.948	303	37.61	66	39.883	231	51.18	207
18	48.276	200	24.39	253	28.435	277	52.30	337	55.251	255	38.27	109	40.114	196	53.25	194
28	48.476	159	26.92	244	28.712	214	55.67	346	55.506	200	39.36	148	40.310	158	55.19	177
Sept. 7	48.635	119	29.36	231	28.926	151	59.13	347	55.706	144	40.84	180	40.468	120	56.96	157
17	48.754	78	31.67	213	29.077	87	62.60	342	55.850	87	42.64	205	40.588	82	58.53	136
26	48.832	39	33.80	193	29.164	25	66.02	330	55.937	30	44.69	222	40.670	47	59.89	113
Okt. 6	48.871	4	35.73	170	29.189	35	69.32	312	55.967	22	46.91	227	40.717	14	61.02	91
16	48.875	27	37.43	144	29.154	90	72.44	287	55.945	69	49.18	224	40.731	15	61.93	68
26	48.848	54	38.87	117	29.064	142	75.31	255	55.876	111	51.42	211	40.716	40	62.61	46
Nov. 5	48.794	78	40.04	88	28.922	187	77.86	218	55.765	143	53.53	190	40.676	61	63.07	24
15	48.716	97	40.92	57	28.735	228	80.04	174	55.622	169	55.43	159	40.615	77	63.31	4
25	48.619	113	41.49	25	28.507	260	81.78	127	55.453	187	57.02	122	40.538	91	63.35	17
Dez. 5	48.506	123	41.74	7	28.247	286	83.05	75	55.266	195	58.24	81	40.447	101	63.18	36
15	48.383	130	41.67	39	27.961	303	83.80	21	55.071	197	59.05	35	40.346	106	62.82	54
25	48.253	133	41.28	68	27.658	310	84.01	34	54.874	193	59.40	11	40.240	109	62.28	69
35	48.120		40.60		27.348		83.67		54.681		59.29		40.131		61.59	
Mittl. Ort	45.896		14.41		25.829		49.30		51.716		61.79		37.708		39.74	
sec δ, tg δ	1.140		+0.548		1.928		+1.649		1.443		−1.040		1.034		+0.264	

Tag	9) ι Ceti AR.		9) ι Ceti Dekl.		10) ζ Tucanae AR.		10) ζ Tucanae Dekl.		11) β Hydri AR.		11) β Hydri Dekl.		12) α Phoenicis AR.		12) α Phoenicis Dekl.	
930	$0^h\ 15^m$		−9° 12′		$0^h\ 16^m$		−65° 16′		$0^h\ 22^m$		−77° 38′		$0^h\ 22^m$		−42° 40′	
. 0	51.010	103	51.14	49	26.14	39	93.24	84	7.22	87	78.07	107	49.302	177	88.81	14
10	50.907	97	51.63	35	25.75	35	92.40	141	6.35	81	77.00	167	49.125	167	88.67	59
20	50.810	89	51.98	18	25.40	32	90.99	192	5.54	73	75.33	220	48.958	151	88.08	102
30	50.721	75	52.16	0	25.08	27	89.07	239	4.81	63	73.13	269	48.807	129	87.06	144
. 9	50.646	55	52.16	20	24.81	22	86.68	280	4.18	52	70.44	308	48.678	102	85.62	182
19	50.591	31	51.96	41	24.59	15	83.88	314	3.66	38	67.36	342	48.576	69	83.80	215
z 1	50.560	2	51.55	64	24.44	8	80.74	340	3.28	25	63.94	366	48.507	31	81.65	245
11	50.558	31	50.91	88	24.36	0	77.34	360	3.03	9	60.28	383	48.476	12	79.20	270
21	50.589	68	50.03	111	24.36	7	73.74	371	2.94	6	56.45	390	48.488	59	76.50	290
31	50.657	108	48.92	135	24.43	16	70.03	374	3.00	22	52.55	389	48.547	108	73.60	303
. 10	50.765	149	47.57	157	24.59	24	66.29	371	3.22	37	48.66	381	48.655	158	70.57	311
20	50.914	188	46.00	177	24.83	32	62.58	359	3.59	52	44.85	364	48.813	208	67.46	313
30	51.102	226	44.23	195	25.15	40	58.99	339	4.11	66	41.21	340	49.021	256	64.33	308
10	51.328	258	42.28	207	25.55	46	55.60	313	4.77	78	37.81	309	49.277	298	61.25	297
20	51.586	287	40.21	216	26.01	52	52.47	279	5.55	90	34.72	270	49.575	336	58.28	279
30	51.873	307	38.05	220	26.53	56	49.68	240	6.45	99	32.02	226	49.911	365	55.49	253
i 9	52.180	321	35.85	217	27.09	60	47.28	195	7.44	105	29.76	176	50.276	385	52.96	223
19	52.501	327	33.68	211	27.69	62	45.33	145	8.49	110	28.00	123	50.661	397	50.73	187
29	52.828	323	31.57	198	28.31	63	43.88	92	9.59	111	26.77	67	51.058	398	48.86	146
9	53.151	312	29.59	181	28.94	61	42.96	36	10.70	110	26.10	10	51.456	389	47.40	102
19	53.463	294	27.78	159	29.55	58	42.60	18	11.80	105	26.00	48	51.845	370	46.38	55
29	53.757	269	26.19	133	30.13	53	42.78	73	12.85	96	26.48	104	52.215	341	45.83	8
. 8	54.026	238	24.86	106	30.66	47	43.51	125	13.81	87	27.52	155	52.556	304	45.75	40
18	54.264	203	23.80	76	31.13	40	44.76	171	14.68	73	29.07	202	52.860	261	46.15	84
28	54.467	166	23.04	47	31.53	32	46.47	211	15.41	57	31.09	242	53.121	211	46.99	125
. 7	54.633	127	22.57	19	31.85	22	48.58	244	15.98	41	33.51	272	53.332	160	48.24	161
17	25 54.760	89	22.38	8	26 32.07	13	51.02	267	16.39	22	36.23	293	53.492	107	49.85	189
26*)	54.849	52	22.46	32	32.20	4	53.69	278	16.61	3	39.16	301	53.599	54	51.74	209
6	54.901	19	22.78	52	32.24	6	56.47	279	27 16.64	15	42.17	298	27 53.653	5	53.83	220
16	54.920	11	23.30	66	32.18	14	59.26	269	16.49	34	45.15	283	53.658	41	56.03	222
26	54.909	37	23.96	78	32.04	23	61.95	246	16.15	49	47.98	255	53.617	82	58.25	214
5	54.872	59	24.74	84	31.81	28	64.41	213	15.66	63	50.53	218	53.535	115	60.39	196
15	54.813	76	25.58	86	31.53	34	66.54	171	15.03	75	52.71	170	53.420	141	62.35	171
25	54.737	88	26.44	83	31.19	37	68.25	122	14.28	83	54.41	115	53.279	161	64.06	138
5	54.649	97	27.27	77	30.82	40	69.47	68	13.45	89	55.56	56	53.118	174	65.44	100
15	54.552	102	28.04	69	30.42	40	70.15	10	12.56	91	56.12	7	52.944	180	66.44	58
25	54.450	103	28.73	57	30.02	40	70.25	49	11.65	89	56.05	69	52.764	181	67.02	14
35	54.347		29.30		29.62		69.76		10.76		55.36		52.583		67.16	
l. Ort	51.680		42.92		26.04		70.58		6.09		54.44		49.600		70.58	
, tg δ	1.013		−0.162		2.392		−2.173		4.675		−4.567		1.360		−0.922	

*) Bei Stern 11) und 12) lies Sept. 27

Scheinbare Sternörter 1930

Tag	13) 12 Ceti AR.	Diff.	13) 12 Ceti Dekl.	Diff.	17) ζ Cassiopeiae AR.	Diff.	17) ζ Cassiopeiae Dekl.	Diff.	18) π Andromedae AR.	Diff.	18) π Andromedae Dekl.	Diff.	20) δ Andromedae AR.	Diff.	20) δ Andromedae Dekl.	Diff.
1930	0h 26m		−4° 20′		0h 33m		+53° 30′		0h 33m		+33° 19′		0h 35m		+30° 28′	
Jan. 0	27.341	103	44.46	58	2.325	258	55.32	42	7.243	148	70.23	64	33.857	141	47.82	64
10	27.238	101	45.04	48	2.067	257	54.90	89	7.095	150	69.59	94	33.716	141	47.18	91
20	27.137	93	45.52	35	1.810	245	54.01	135	6.945	142	68.65	120	33.575	135	46.27	115
30	27.044	82	45.87	21	1.565	222	52.66	173	6.803	128	67.45	142	33.440	122	45.12	134
Feb. 9	26.962	63	46.08	4	1.343	187	50.93	205	6.675	106	66.03	156	33.318	101	43.78	146
19	26.899	41	46.12	14	1.156	141	48.88	227	6.569	76	64.47	165	33.217	74	42.32	153
März 1	26.858	13	45.98	36	1.015	86	46.61	239	6.493	40	62.82	165	33.143	38	40.79	151
11	26.845	21	45.62	58	0.929	23	44.22	242	6.453	3	61.17	156	33.105	2	39.28	141
21	26.866	58	45.04	81	0.906	46	41.80	232	6.456	50	59.61	140	33.107	49	37.87	125
31	26.924	97	44.23	107	0.952	117	39.48	214	6.506	101	58.21	117	33.156	96	36.62	102
Apr. 10	27.021	138	43.16	130	1.069	187	37.34	185	6.607	151	57.04	87	33.252	146	35.60	73
20	27.159	179	41.86	152	1.256	254	35.49	151	6.758	200	56.17	53	33.398	194	34.87	39
30	27.338	217	40.34	173	1.510	316	33.98	109	6.958	246	55.64	15	33.592	239	34.48	3
Mai 10	27.555	251	38.61	190	1.826	368	32.89	63	7.204	286	55.49	23	33.831	278	34.45	35
20	27.806	280	36.71	203	2.194	411	32.26	14	7.490	319	55.72	64	34.109	311	34.80	73
30	28.086	302	34.68	211	2.605	442	32.12	34	7.809	344	56.36	102	34.420	335	35.53	110
Juni 9	28.388	317	32.57	215	3.047	462	32.46	83	8.153	360	57.38	138	34.755	352	36.63	143
19	28.705	323	30.42	212	3.509	468	33.29	130	8.513	365	58.76	170	35.107	358	38.06	173
29	29.028	322	28.30	205	3.977	463	34.59	172	8.878	363	60.46	198	35.465	356	39.79	199
Juli 9	29.350	313	26.25	192	4.440	447	36.31	212	9.241	350	62.44	222	35.821	345	41.78	220
19	29.663	295	24.33	174	4.887	420	38.43	245	9.591	332	64.66	239	36.166	326	43.98	235
29	29.958	272	22.59	153	5.307	386	40.88	273	9.923	304	67.05	252	36.492	300	46.33	245
Aug. 8	30.230	243	21.06	129	5.693	342	43.61	296	10.227	272	69.57	259	36.792	269	48.78	250
18	30.473	210	19.77	103	6.035	295	46.57	311	10.499	235	72.16	260	37.061	233	51.28	250
28	30.683	174	18.74	75	6.330	243	49.68	321	10.734	196	74.76	256	37.294	195	53.78	244
Sept. 7	30.857	136	17.99	48	6.573	189	52.89	325	10.930	155	77.32	248	37.489	156	56.22	234
17	30.993	99	17.51	21	6.762	134	56.14	322	11.085	114	79.80	235	37.645	116	58.56	220
27	31.092	64	17.30	3	6.896	80	59.36	312	11.199	75	82.15	219	37.761	78	60.76	203
Okt. 6	31.156	30	17.33	24	6.976	28	62.48	297	11.274	37	84.34	199	37.839	41	62.79	183
16	31.186	1	17.57	41	7.004	22	65.45	276	11.311	3	86.33	175	37.880	8	64.62	160
26	31.187	26	17.98	55	6.982	69	68.21	249	11.314	28	88.08	150	37.888	23	66.22	135
Nov. 5	31.161	48	18.53	65	6.913	112	70.70	217	11.286	57	89.58	122	37.865	50	67.57	108
15	31.113	66	19.18	71	6.801	151	72.87	178	11.229	83	90.80	91	37.815	75	68.65	79
25	31.047	80	19.89	73	6.650	185	74.65	136	11.146	103	91.71	59	37.740	95	69.44	49
Dez. 5	30.967	92	20.62	72	6.465	215	76.01	90	11.043	121	92.30	25	37.645	113	69.93	17
15	30.875	98	21.34	69	6.250	236	76.91	41	10.922	135	92.55	9	37.532	127	70.10	14
25	30.777	102	22.03	62	6.014	250	77.32	10	10.787	144	92.46	42	37.405	135	69.96	44
35	30.675		22.65		5.764		77.22		10.643		92.04		37.270		69.52	
Mittl. Ort	27.986		38.27		3.617		42.79		8.199		63.23		34.763		41.64	
sec δ, tg δ	1.003		−0.076		1.682		+1.352		1.197		+0.658		1.160		+0.588	

Tag		21) α Cassiopeiae AR.		21) α Cassiopeiae Dekl.		22) β Ceti AR.		22) β Ceti Dekl.	
1930		$0^h\ 36^m$		$+56°\ 9'$		$0^h\ 40^m$		$-18°\ 21'$	
Jan.	0	29.999	283	26.56	33	4.149	116	84.75	44
	10	29.716	283	26.23	84	4.033	114	85.19	18
	20	29.433	271	25.39	130	3.919	108	85.37	7
	30	29.162	246	24.09	172	3.811	97	85.30	35
Feb.	9	28.916	210	22.37	205	3.714	80	84.95	61
	19	28.706	161	20.32	231	3.634	57	84.34	88
März	1	28.545	101	18.01	245	3.577	29	83.46	115
	11	28.444	34	15.56	249	3.548	4	82.31	141
	21	28.410	39	13.07	242	3.552	42	80.90	165
	31	28.449	114	10.65	225	3.594	83	79.25	187
Apr.	10	28.563	190	8.40	198	3.677	125	77.38	207
	20	28.753	262	6.42	164	3.802	167	75.31	223
	30	29.015	327	4.78	122	3.969	208	73.08	235
Mai	10	29.342	384	3.56	76	4.177	245	70.73	243
	20	29.726	430	2.80	29	4.422	278	68.30	245
	30	30.156	463	2.51	22	4.700	303	65.85	242
Juni	9	30.619	485	2.73	72	5.003	321	63.43	232
	19	31.104	493	3.45	119	5.324	331	61.11	217
	29	31.597	489	4.64	165	5.655	334	58.94	196
Juli	9	32.086	472	6.29	205	5.989	326	56.98	171
	19	32.558	445	8.34	241	6.315	313	55.27	142
	29	33.003	409	10.75	271	6.628	290	53.85	108
Aug.	8	33.412	365	13.46	295	6.918	263	52.77	74
	18	33.777	314	16.41	314	7.181	229	52.03	38
	28	34.091	260	19.55	325	7.410	193	51.65	3
Sept.	7	34.351	204	22.80	331	7.603	154	51.62	30
	17	34.555	146	26.11	329	7.757	115	51.92	61
	27	34.701	88	29.40	322	7.872	77	52.53	85
Okt.	6	34.789	32	32.62	309	7.949	40	53.38	106
	16	34.821	21	35.71	288	7.989	7	54.44	120
	26	34.800	72	38.59	262	7.996	23	55.64	128
Nov.	5	34.728	120	41.21	230	7.973	48	56.92	129
	15	34.608	162	43.51	192	7.925	69	58.21	124
	25	34.446	200	45.43	149	7.856	87	59.45	114
Dez.	5	34.246	233	46.92	102	7.769	99	60.59	99
	15	34.013	258	47.94	51	7.670	109	61.58	80
	25	33.755	276	48.45	0	7.561	114	62.38	58
	35	33.479		48.45		7.447		62.96	
Mittl. Ort		31.326		13.34		4.587		74.15	
sec δ, tg δ		1.795		+1.491		1.054		−0.332	

Tag		25) ο Cassiopeiae AR.		25) ο Cassiopeiae Dekl.		24) 21 Cassiopeiae AR.		24) 21 Cassiopeiae Dekl.	
1930		$0^h\ 40^m$		$+47°\ 53'$		$0^h\ 40^m$		$+74°\ 36'$	
Jan.	0	47.799	215	76.78	41	57.17	72	37.10	9
	10	47.584	217	76.37	85	56.45	72	37.19	53
	20	47.367	208	75.52	125	55.73	69	36.66	112
	30	47.159	191	74.27	160	55.04	63	35.54	165
Feb.	9	46.968	163	72.67	188	54.41	55	33.89	212
	19	46.805	124	70.79	207	53.86	44	31.77	249
März	1	46.681	78	68.72	219	53.42	30	29.28	276
	11	46.603	23	66.53	218	53.12	16	26.52	290
	21	46.580	37	64.35	210	52.96	0	23.62	292
	31	46.617	100	62.25	190	52.96	15	20.70	282
Apr.	10	46.717	163	60.35	164	53.11	31	17.88	262
	20	46.880	224	58.71	129	53.42	45	15.26	231
	30	47.104	281	57.42	90	53.87	59	12.95	191
Mai	10	47.385	330	56.52	46	54.46	69	11.04	145
	20	47.715	370	56.06	0	55.15	78	9.59	95
	30	48.085	401	56.06	45	55.93	86	8.64	41
Juni	9	48.486	420	56.51	91	56.79	89	8.23	15
	19	48.906	429	57.42	134	57.68	91	8.38	69
	29	49.335	427	58.76	173	58.59	90	9.07	122
Juli	9	49.762	413	60.49	208	59.49	88	10.29	173
	19	50.175	391	62.57	240	60.37	82	12.02	218
	29	50.566	361	64.97	263	61.19	76	14.20	260
Aug.	8	50.927	324	67.60	283	61.95	68	16.80	295
	18	51.251	281	70.43	295	62.63	59	19.75	326
	28	51.532	235	73.38	302	63.22	48	23.01	348
Sept.	7	51.767	188	76.40	303	63.70	37	26.49	364
	17	51.955	139	79.43	299	64.07	25	30.13	372
	27	52.094	91	82.42	289	64.32	13	33.85	374
Okt.	6	52.185	45	85.31	273	64.45	1	37.59	368
	16	52.230	0	88.04	253	64.46	10	41.27	354
	26	52.230	41	90.57	226	64.36	22	44.81	330
Nov.	5	52.189	79	92.83	196	64.14	33	48.11	301
	15	52.110	114	94.79	160	63.81	43	51.12	263
	25	51.996	145	96.39	121	63.38	53	53.75	217
Dez.	5	51.851	171	97.60	79	62.85	61	55.92	165
	15	51.680	192	98.39	34	62.24	67	57.57	108
	25	51.488	206	98.73	12	61.57	70	58.65	48
	35	51.282		98.61		60.87		59.13	
Mittl. Ort		48.911		65.39		59.42		20.62	
sec δ, tg δ		1.492		+1.107		3.767		+3.632	

Scheinbare Sternörter 1930

Tag	27) ζ Andromedae				32) γ Cassiopeiae				33) μ Andromedae				35) α Sculptoris			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1930	0h 43m		+23° 53′		0h 52m		+60° 20′		0h 52m		+38° 7′		0h 55m		−29° 43′	
Jan. 0	36.633	126	16.19	63	26.79	33	31.50	5	50.763	165	21.18	42	13.786	141	81.98	37
10	36.507	128	15.56	82	26.46	34	31.45	60	50.598	169	20.76	76	13.645	141	82.35	1
20	36.379	124	14.74	100	26.12	32	30.85	110	50.429	166	20.00	109	13.504	136	82.36	36
30	36.255	114	13.74	113	25.80	31	29.75	156	50.263	154	18.91	136	13.368	124	82.00	72
Feb. 9	36.141	96	12.61	120	25.49	27	28.19	195	50.109	135	17.55	157	13.244	108	81.28	107
19	36.045	72	11.41	122	25.22	21	26.24	225	49.974	105	15.98	171	13.136	84	80.21	141
März 1	35.973	40	10.19	116	25.01	15	23.99	247	49.869	68	14.27	176	13.052	56	78.80	172
11	35.933	2	9.03	106	24.86	7	21.52	255	49.801	24	12.51	174	12.996	20	77.08	200
21	35.931	40	7.97	88	24.79	0	18.97	255	49.777	27	10.77	163	12.976	20	75.08	225
31	35.971	84	7.09	65	24.79	9	16.42	242	49.804	80	9.14	144	12.996	63	72.83	247
Apr. 10	36.055	132	6.44	37	24.88	18	14.00	220	49.884	135	7.70	118	13.059	108	70.36	263
20	36.187	178	6.07	6	25.06	26	11.80	189	50.019	188	6.52	86	13.167	155	67.73	276
30	36.365	222	6.01	27	25.32	34	9.91	151	50.207	239	5.66	50	13.322	199	64.97	282
Mai 10	36.587	260	6.28	62	25.66	40	8.40	107	50.446	284	5.16	11	13.521	241	62.15	283
20	36.847	292	6.90	95	26.06	46	7.33	60	50.730	323	5.05	29	13.762	277	59.32	277
30	37.139	318	7.85	126	26.52	50	6.73	9	51.053	351	5.34	70	14.039	308	56.55	266
Juni 9	37.457	335	9.11	155	27.02	53	6.64	41	51.404	371	6.04	109	14.347	330	53.89	247
19	37.792	343	10.66	179	27.55	54	7.05	91	51.775	382	7.13	144	14.677	346	51.42	223
29	38.135	342	12.45	200	28.09	54	7.96	137	52.157	382	8.57	177	15.023	351	49.19	193
Juli 9	38.477	334	14.45	214	28.63	53	9.33	182	52.539	374	10.34	204	15.374	348	47.26	158
19	38.811	317	16.59	224	29.16	50	11.15	221	52.913	357	12.38	228	15.722	337	45.68	120
29	39.128	295	18.83	229	29.66	47	13.36	256	53.270	332	14.66	246	16.059	316	44.48	78
Aug. 8	39.423	265	21.12	229	30.13	43	15.92	284	53.602	301	17.12	258	16.375	289	43.70	36
18	39.688	232	23.41	223	30.56	37	18.76	307	53.903	266	19.70	264	16.664	256	43.34	8
28	39.920	196	25.64	213	30.93	32	21.83	324	54.169	227	22.34	266	16.920	218	43.42	48
Sept. 7	40.116	159	27.77	201	31.25	25	25.07	334	54.396	186	25.00	262	17.138	177	43.90	87
17	40.275	122	29.78	184	31.50	19	28.41	337	54.582	145	27.62	254	17.315	135	44.77	120
27	40.397	85	31.62	166	31.69	13	31.78	335	54.727	103	30.16	242	17.450	92	45.97	147
Okt. 6	[2] 40.482	51	33.28	145	[5] 31.82	6	35.13	325	[5] 54.830	64	32.58	225	[5] 17.542	51	47.44	168
16	40.533	19	34.73	123	31.88	0	38.38	309	54.894	26	34.83	204	17.593	13	49.12	180
26	40.552	11	35.96	100	31.88	6	41.47	287	54.920	9	36.87	181	17.606	22	50.92	183
Nov. 5	40.541	36	36.96	77	31.82	11	44.34	256	54.911	41	38.68	153	17.584	53	52.75	179
15	40.505	60	37.73	51	31.71	17	46.90	221	54.870	72	40.21	123	17.531	79	54.54	167
25	40.445	80	38.24	27	31.54	21	49.11	179	54.798	98	41.44	90	17.452	101	56.21	148
Dez. 5	40.365	97	38.51	1	31.33	26	50.90	133	54.700	122	42.34	55	17.351	117	57.69	122
15	40.268	111	38.52	25	31.07	29	52.23	82	54.578	141	42.89	18	17.234	131	58.91	92
25	40.157	120	38.27	47	30.78	31	53.05	28	54.437	156	43.07	19	17.103	138	59.83	59
35	40.037		37.80		30.47		53.33		54.281		42.88		16.965		60.42	
Mittl. Ort	37.420		11.92		28.07		16.95		51.643		12.14		13.996		68.32	
sec δ, tg δ	1.094		+0.443		2.021		+1.756		1.271		+0.785		1.152		−0.571	

Tag	36) ε Piscium AR.		36) ε Piscium Dekl.		38) β Phoenicis AR.		38) β Phoenicis Dekl.		42) β Andromedae AR.		42) β Andromedae Dekl.		45) υ Piscium AR.		45) υ Piscium Dekl.	
1930	$0^h\ 59^m$		$+7°\ 30'$		$1^h\ 2^m$		$-47°\ 5'$		$1^h\ 5^m$		$+35°\ 14'$		$1^h\ 15^m$		$+26°\ 53'$	
Jan. 0	17.923	108	48.29	62	57.806	215	54.59	17	47.609	152	68.14	36	36.187	129	53.91	40
10	17.815	112	47.67	64	57.591	215	54.76	33	47.457	160	67.78	67	36.058	138	53.51	63
20	17.703	110	47.03	63	57.376	206	54.43	83	47.297	160	67.11	96	35.920	140	52.88	83
30	17.593	104	46.40	60	57.170	190	53.60	130	47.137	152	66.15	122	35.780	136	52.05	101
Feb. 9	17.489	91	45.80	54	56.980	167	52.30	174	46.985	135	64.93	141	35.644	123	51.04	113
19	17.398	71	45.26	43	56.813	137	50.56	213	46.850	110	63.52	154	35.521	102	49.91	120
März 1	17.327	45	44.83	30	56.676	100	48.43	249	46.740	76	61.98	160	35.419	73	48.71	120
11	17.282	13	44.53	11	56.576	57	45.94	279	46.664	34	60.38	158	35.346	36	47.51	114
21	17.269	25	44.42	9	56.519	7	43.15	303	46.630	13	58.80	147	35.310	5	46.37	102
31	17.294	66	44.51	32	56.512	45	40.12	322	46.643	64	57.33	130	35.315	52	45.35	84
Apr. 10	17.360	109	44.83	58	56.557	100	36.90	333	46.707	117	56.03	106	35.367	102	44.51	61
20	17.469	152	45.41	84	56.657	157	33.57	338	46.824	171	54.97	76	35.469	151	43.90	32
30	17.621	194	46.25	110	56.814	211	30.19	336	46.995	221	54.21	43	35.620	197	43.58	1
Mai 10	17.815	232	47.35	134	57.025	263	26.83	327	47.216	266	53.78	5	35.817	241	43.57	31
20	18.047	265	48.69	156	57.288	310	23.56	310	47.482	305	53.73	32	36.058	279	43.88	64
30	18.312	291	50.25	175	57.598	349	20.46	287	47.787	335	54.05	70	36.337	309	44.52	96
Juni 9	18.603	310	52.00	190	57.947	380	17.59	256	48.122	358	54.75	106	36.646	331	45.48	127
19	18.913	321	53.90	200	58.327	401	15.03	220	48.480	371	55.81	140	36.977	346	46.75	153
29	19.234	325	55.90	204	58.728	412	12.83	177	48.851	374	57.21	170	37.323	351	48.28	176
Juli 9	19.559	320	57.94	204	59.140	413	11.06	131	49.225	368	58.91	196	37.674	348	50.04	195
19	19.879	307	59.98	199	59.553	403	9.75	81	49.593	354	60.87	217	38.022	336	51.99	209
29	20.186	288	61.97	188	59.956	382	8.94	29	49.947	332	63.04	232	38.358	318	54.08	217
Aug. 8	20.474	263	63.85	174	60.338	351	8.65	23	50.279	305	65.36	244	38.676	293	56.25	221
18	20.737	234	65.59	156	60.689	313	8.88	73	50.584	272	67.80	249	38.969	264	58.46	220
28	20.971	202	67.15	136	61.002	266	9.61	121	50.856	236	70.29	249	39.233	231	60.66	215
Sept. 7	21.173	167	68.51	113	61.268	216	10.82	163	51.092	197	72.78	245	39.464	196	62.81	206
17	21.340	133	69.64	91	61.484	162	12.45	198	51.289	158	75.23	237	39.660	160	64.87	194
27	21.473	98	70.55	68	61.646	107	14.43	225	51.447	119	77.60	224	39.820	125	66.81	178
Okt. 6*)	21.571	66	71.23	46	61.753	52	16.68	243	51.566	80	79.84	209	39.945	89	68.59	161
16	21.637	35	71.69	25	61.805	1	19.11	250	51.646	45	81.93	189	40.034	56	70.20	141
26	21.672	7	71.94	7	61.804	49	21.61	247	51.691	10	83.82	167	40.090	24	71.61	120
Nov. 5	21.679	17	72.01	9	61.755	93	24.08	234	51.701	23	85.49	142	40.114	5	72.81	99
15	21.662	41	71.92	24	61.662	130	26.42	210	51.678	52	86.91	114	40.109	33	73.80	76
25	21.621	60	71.68	35	61.532	161	28.52	179	51.626	80	88.05	85	40.076	59	74.56	51
Dez. 5	21.561	76	71.33	45	61.371	185	30.31	140	51.546	104	88.90	52	40.017	82	75.07	26
15	21.485	91	70.88	53	61.186	203	31.71	95	51.442	126	89.42	19	39.935	102	75.33	0
25	21.394	101	70.35	59	60.983	213	32.66	47	51.316	142	89.61	14	39.833	119	75.33	24
35	21.293		69.76		60.770		33.13		51.174		89.47		39.714		75.09	
Mittl. Ort	18.472		49.23		57.658		36.68		48.369		59.60		36.804		47.74	
sec δ, tg δ	1.009		+0.132		1.469		−1.076		1.225		+0.707		1.121		+0.507	

*) Bei Stern 38), 42) und 45) lies Okt. 7

Scheinbare Sternörter 1930

Tag	47) ϑ Ceti AR.		47) ϑ Ceti Dekl.		48) δ Cassiopeiae AR.		48) δ Cassiopeiae Dekl.		50) η Piscium AR.		50) η Piscium Dekl.		51) 40 Cassiopeiae AR.		51) 40 Cassiopeiae Dekl.	
1930	1h 20m		−8° 32′		1h 21m		+59° 52′		1h 27m		+14° 59′		1h 32m		+72° 40′	
Jan. 0	31.145	109	44.66	66	12.209	310	34.80	29	43.582	111	10.05	50	51.82	59	80.35	75
10	31.036	116	45.32	49	11.899	327	35.09	24	43.471	120	9.55	59	51.23	62	81.10	15
20	30.920	119	45.81	31	11.572	330	34.85	76	43.351	124	8.96	67	50.61	64	81.25	45
30	30.801	114	46.12	12	11.242	317	34.09	123	43.227	123	8.29	71	49.97	61	80.80	101
Feb. 9	30.687	104	46.24	9	10.925	290	32.86	166	43.104	113	7.58	73	49.36	56	79.79	154
19	30.583	88	46.15	32	10.635	246	31.20	200	42.991	97	6.85	69	48.80	49	78.25	199
März 1	30.495	64	45.83	55	10.389	190	29.20	226	42.894	73	6.16	63	48.31	40	76.26	235
11	30.431	34	45.28	78	10.199	121	26.94	241	42.821	41	5.53	51	47.91	28	73.91	260
21	30.397	1	44.50	103	10.078	43	24.53	246	42.780	3	5.02	34	47.63	15	71.31	275
31	30.398	41	43.47	127	10.035	41	22.07	241	42.777	38	4.68	15	47.48	1	68.56	279
Apr. 10	30.439	83	42.20	150	10.076	127	19.66	226	42.815	84	4.53	9	47.47	13	65.77	269
20	30.522	127	40.70	172	10.203	211	17.40	200	42.899	130	4.62	34	47.60	27	63.08	251
30	30.649	170	38.98	190	10.414	291	15.40	168	43.029	174	4.96	62	47.87	41	60.57	222
Mai 10	30.819	209	37.08	206	10.705	363	13.72	129	43.203	216	5.58	89	48.28	52	58.35	186
20	31.028	245	35.02	217	11.068	425	12.43	86	43.419	253	6.47	114	48.80	63	56.49	144
30	31.273	275	32.85	223	11.493	475	11.57	39	43.672	284	7.61	138	49.43	71	55.05	97
Juni 9	31.548	298	30.62	225	11.968	511	11.18	9	43.956	307	8.99	159	50.14	78	54.08	46
19	31.846	314	28.37	220	12.479	535	11.27	57	44.263	322	10.58	175	50.92	82	53.62	6
29	32.160	321	26.17	210	13.014	545	11.84	103	44.585	330	12.33	188	51.74	84	53.68	57
Juli 9	32.481	321	24.07	195	13.559	540	12.87	148	44.915	330	14.21	195	52.58	84	54.25	107
19	32.802	312	22.12	174	14.099	524	14.35	188	45.245	321	16.16	198	53.42	83	55.32	155
29	33.114	298	20.38	149	14.623	498	16.23	224	45.566	306	18.14	195	54.25	79	56.87	199
Aug. 8	33.412	276	18.89	121	15.121	460	18.47	255	45.872	284	20.09	189	55.04	74	58.86	239
18	33.688	249	17.68	91	15.581	416	21.02	282	46.156	259	21.98	178	55.78	68	61.25	275
28	33.937	219	16.77	60	15.997	365	23.84	301	46.415	229	23.76	164	56.46	60	64.00	304
Sept. 7	34.156	186	16.17	27	16.362	310	26.85	315	46.644	197	25.40	147	57.06	51	67.04	327
17	34.342	151	15.90	3	16.672	252	30.00	324	46.841	163	26.87	128	57.57	42	70.31	344
27	34.493	117	15.93	30	16.924	190	33.24	325	47.004	131	28.15	108	57.99	32	73.75	355
Okt. 7	34.610	84	16.23	54	17.114	130	36.49	321	47.135	98	29.23	88	58.31	22	77.30	358
16	34.694	52	16.77	74	17.244	68	39.70	310	47.233	67	30.11	69	58.53	11	80.88	354
26	34.746	21	17.51	88	17.312	7	42.80	292	47.300	38	30.80	49	58.64	0	84.42	342
Nov. 5	34.767	6	18.39	98	17.319	52	45.72	268	47.338	9	31.29	32	58.64	11	87.84	322
15	34.761	30	19.37	101	17.267	110	48.40	237	47.347	17	31.61	14	58.53	21	91.06	295
25	34.731	53	20.38	101	17.157	163	50.77	201	47.330	41	31.75	2	58.32	32	94.01	259
Dez. 5	34.678	72	21.39	96	16.994	213	52.78	159	47.289	63	31.73	16	58.00	41	96.60	215
15	34.606	89	22.35	86	16.781	257	54.37	112	47.226	82	31.57	30	57.59	48	98.75	166
25	34.517	102	23.21	75	16.524	290	55.49	60	47.144	100	31.27	42	57.11	56	100.41	110
35	34.415		23.96		16.234		56.09		47.044		30.85		56.55		101.51	
Mittl. Ort	31.427		38.78		13.173		19.70		44.026		7.53		52.96		63.01	
sec δ, tg δ	1.011		−0.150		1.992		+1.723		1.035		+0.268		3.360		+3.207	

Tag	52) υ Persei AR.		52) υ Persei Dekl.		54) α Eridani AR.		54) α Eridani Dekl.		55) 43 Cassiopeiae AR.		55) 43 Cassiopeiae Dekl.		57) φ Persei AR.		57) φ Persei Dekl.	
1930	1h 33m		+48° 16′		1h 35m		−57° 35′		1h 37m		+67° 41′		1h 39m		+50° 20′	
Jan. 0	40.386	203	39.85	15	7.442	313	49.81	37	6.80	43	40.21	67	15.001	213	25.78	26
10	40.183	219	40.00	28	7.129	320	50.18	19	6.37	47	40.88	11	14.788	233	26.04	19
20	39.964	226	39.72	70	6.809	316	49.99	75	5.90	47	40.99	46	14.555	241	25.85	62
30	39.738	223	39.02	109	6.493	303	49.24	129	5.43	46	40.53	100	14.314	238	25.23	103
Feb. 9	39.515	207	37.93	142	6.190	279	47.95	180	4.97	43	39.53	150	14.076	223	24.20	139
19	39.308	180	36.51	169	5.911	246	46.15	225	4.54	38	38.03	192	13.853	196	22.81	169
März 1	39.128	141	34.82	189	5.665	204	43.90	265	4.16	30	36.11	226	13.657	156	21.12	190
11	38.987	92	32.93	199	5.461	152	41.25	300	3.86	21	33.85	250	13.501	106	19.22	203
21	38.895	35	30.94	201	5.309	94	38.25	327	3.65	12	31.35	262	13.395	47	17.19	207
31	38.860	28	28.93	194	5.215	29	34.98	348	3.53	0	28.73	264	13.348	19	15.12	202
Apr. 10	38.888	93	26.99	177	5.186	39	31.50	362	3.53	11	26.09	256	13.367	87	13.10	187
20	38.981	159	25.22	153	5.225	110	27.88	367	3.64	22	23.53	236	13.454	155	11.23	165
30	39.140	222	23.69	122	5.335	179	24.21	365	3.86	32	21.17	207	13.609	222	9.58	135
Mai 10	39.362	280	22.47	87	5.514	247	20.56	356	4.18	42	19.10	172	13.831	282	8.23	100
20	39.642	332	21.60	48	5.761	311	17.00	338	4.60	51	17.38	131	14.113	337	7.23	61
30	39.974	373	21.12	6	6.072	366	13.62	313	5.11	58	16.07	84	14.450	380	6.62	19
Juni 9	40.347	405	21.06	36	6.438	413	10.49	280	5.69	63	15.23	35	14.830	415	6.43	23
19	40.752	426	21.42	77	6.851	450	7.69	240	6.32	66	14.88	14	15.245	439	6.66	65
29	41.178	436	22.19	117	7.301	474	5.29	194	6.98	69	15.02	64	15.684	450	7.31	106
Juli 9	41.614	436	23.36	153	7.775	487	3.35	144	7.67	69	15.66	112	16.134	451	8.37	143
19	42.050	425	24.89	185	8.262	487	1.91	90	8.36	67	16.78	157	16.585	442	9.80	178
29	42.475	407	26.74	214	8.749	472	1.01	33	9.03	64	18.35	199	17.027	424	11.58	208
Aug. 8	42.882	379	28.88	237	9.221	446	0.68	25	9.67	61	20.34	237	17.451	397	13.66	233
18	43.261	347	31.25	256	9.667	407	0.93	80	10.28	56	22.71	269	17.848	364	15.99	254
28	43.608	308	33.81	269	10.074	359	1.73	134	10.84	49	25.40	297	18.212	326	18.53	269
Sept. 7	43.916	267	36.50	277	10.433	302	3.07	181	11.33	43	28.37	318	18.538	284	21.22	279
17	44.183	223	39.27	279	10.735	237	4.88	223	11.76	35	31.55	332	18.822	238	24.01	284
27	44.406	178	42.06	277	10.972	170	7.11	254	12.11	28	34.87	341	19.060	192	26.85	283
Okt. 7	44.584	133	44.83	269	11.142	99	9.65	277	12.39	20	38.28	343	19.252	145	29.68	277
16*)	[15] 44.717	86	47.52	257	[16] 11.241	29	12.42	288	[16] 12.59	11	41.71	338	19.397	98	32.45	267
26	44.803	42	50.09	240	11.270	39	15.30	287	12.70	3	45.09	326	[17] 19.495	50	35.12	251
Nov. 5	44.845	1	52.49	217	11.231	102	18.17	274	12.73	5	48.35	306	19.545	4	37.63	229
15	44.844	44	54.66	190	11.129	159	20.91	250	12.68	14	51.41	278	19.549	41	39.92	203
25	44.800	85	56.56	159	10.970	209	23.41	217	12.54	21	54.19	244	19.508	84	41.95	171
Dez. 5	44.715	122	58.15	123	10.761	250	25.58	175	12.33	29	56.63	202	19.424	126	43.66	136
15	44.593	157	59.38	83	10.511	283	27.33	125	12.04	35	58.65	154	19.298	163	45.02	96
25	44.436	185	60.21	42	10.228	305	28.58	73	11.69	40	60.19	102	19.135	193	45.98	54
35	44.251		60.63		9.923		29.31		11.29		61.21		18.942		46.52	
Mittl. Ort	41.073		27.12		6.607		31.35		7.73		23.51		15.662		12.45	
sec δ, tg δ	1.502		+1.121		1.866		−1.575		2.634		+2.437		1.567		+1.206	

*) Bei Stern 57) lies Okt. 17

Scheinbare Sternörter 1930

Tag	59) τ Ceti [1]				60) ο Piscium				61) Lac. ε Sculptoris				62) ζ Ceti			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	1ʰ 40ᵐ		−16° 17′		1ʰ 41ᵐ		+8° 48′		1ʰ 42ᵐ		−25° 23′		1ʰ 47ᵐ		−10° 40′	
Jan. 0	48.856	120	88.24	69	41.342	104	22.50	54	22.045	132	78.51	75	60.153	109	54.59	74
10	48.736	130	88.93	44	41.238	116	21.96	56	21.913	143	79.26	41	60.044	120	55.33	56
20	48.606	134	89.37	18	41.122	122	21.40	57	21.770	147	79.67	6	59.924	127	55.89	34
30	48.472	133	89.55	-10	41.000	123	20.83	55	21.623	145	79.73	-29	59.797	128	56.23	12
Feb. 9	48.339	124	89.45	39	40.877	117	20.28	50	21.478	137	79.44	64	59.669	122	56.35	12
19	48.215	110	89.06	67	40.760	103	19.78	42	21.341	121	78.80	99	59.547	109	56.23	36
März 1	48.105	87	88.39	95	40.657	80	19.36	31	21.220	98	77.81	132	59.438	88	55.87	61
11	48.018	58	87.44	122	40.577	52	19.05	16	21.122	68	76.49	163	59.350	61	55.26	86
21	47.960	24	86.22	149	40.525	16	18.89	1	21.054	32	74.86	192	59.289	27	54.40	111
31	47.936	-17	84.73	174	40.509	-24	18.90	22	21.022	10	72.94	217	59.262	12	53.29	137
Apr. 10	47.953	60	82.99	196	40.533	68	19.12	45	21.032	54	70.77	239	59.274	55	51.92	159
20	48.013	104	81.03	215	40.601	113	19.57	69	21.086	100	68.38	257	59.329	98	50.33	181
30	48.117	149	78.88	232	40.714	157	20.26	93	21.186	147	65.81	269	59.427	143	48.52	200
Mai 10	48.266	191	76.56	244	40.871	200	21.19	118	21.333	191	63.12	278	59.570	185	46.52	214
20	48.457	230	74.12	249	41.071	237	22.37	139	21.524	233	60.34	279	59.755	224	44.38	226
30	48.687	262	71.63	251	41.308	269	23.76	158	21.757	267	57.55	274	59.979	258	42.12	231
Juni 9	48.949	289	69.12	246	41.577	295	25.34	174	22.024	297	54.81	263	60.237	284	39.81	232
19	49.238	308	66.66	236	41.872	312	27.08	186	22.321	319	52.18	245	60.521	304	37.49	227
29	49.546	320	64.30	219	42.184	322	28.94	192	22.640	332	49.73	222	60.825	317	35.22	215
Juli 9	49.866	322	62.11	196	42.506	324	30.86	193	22.972	337	47.51	191	61.142	321	33.07	199
19	50.188	318	60.15	169	42.830	318	32.79	191	23.309	334	45.60	157	61.463	317	31.08	177
29	50.506	305	58.46	137	43.148	306	34.70	183	23.643	322	44.03	118	61.780	306	29.31	151
Aug. 8	50.811	286	57.09	103	43.454	287	36.53	170	23.965	304	42.85	77	62.086	290	27.80	121
18	51.097	262	56.06	66	43.741	263	38.23	155	24.269	279	42.08	34	62.376	266	26.59	88
28	51.359	232	55.40	28	44.004	236	39.78	135	24.548	250	41.74	10	62.642	240	25.71	55
Sept. 7	51.591	200	55.12	8	44.240	206	41.13	115	24.798	215	41.84	50	62.882	209	25.16	20
17	51.791	166	55.20	43	44.446	174	42.28	92	25.013	179	42.34	89	63.091	177	24.96	13
27	51.957	131	55.63	74	44.620	142	43.20	70	25.192	141	43.23	122	63.268	144	25.09	42
Okt. 7	52.088	95	56.37	99	44.762	110	43.90	49	25.333	103	44.45	149	63.412	111	25.51	69
17	52.183	62	57.36	120	44.872	80	44.39	29	25.436	67	45.94	168	63.523	78	26.20	90
26	52.245	30	58.56	133	44.952	50	44.68	11	25.503	31	47.62	181	63.601	47	27.10	105
Nov. 5	52.275	0	59.89	140	45.002	22	44.79	-5	25.534	2	49.43	184	63.648	18	28.15	115
15	52.275	28	61.29	140	45.024	-5	44.74	19	25.532	33	51.27	179	63.666	-10	29.30	119
25	52.247	52	62.69	133	45.019	29	44.55	30	25.499	60	53.06	168	63.656	35	30.49	118
Dez. 5	52.195	76	64.02	122	44.990	53	44.25	39	25.439	85	54.74	148	63.621	59	31.67	111
15	52.119	95	65.24	105	44.937	74	43.86	47	25.354	106	56.22	124	63.562	80	32.78	100
25	52.024	111	66.29	83	44.863	92	43.39	52	25.248	123	57.46	95	63.482	98	33.78	85
35	51.913		67.12		44.771		42.87		25.125		58.41		63.384		34.63	
Mittl. Ort	48.952		80.42		41.656		21.70		21.994		68.06		60.251		49.02	
sec δ, tg δ	1.042		−0.293		1.012		+0.155		1.107		−0.475		1.018		−0.189	

[1] Die jährliche Parallaxe (0.″31) ist bereits berücksichtigt.

Tag	64) α Trianguli AR.		64) α Trianguli Dekl.		63) ε Cassiopeiae AR.		63) ε Cassiopeiae Dekl.		65) ξ Piscium AR.		65) ξ Piscium Dekl.		66) β Arietis AR.		66) β Arietis Dekl.	
1930	1h 49m		+29° 14′		1h 49m		+63° 19′		1h 49m		+2° 50′		1h 50m		+20° 27′	
Jan. 0	4.698	125	26.37	16	19.56	34	50.74	70	55.550	101	32.06	61	45.741	111	64.52	33
10	4.573	142	26.21	40	19.22	37	51.44	17	55.449	115	31.45	57	45.630	125	64.19	48
20	4.431	151	25.81	63	18.85	39	51.61	36	55.334	122	30.88	50	45.505	135	63.71	61
30	4.280	154	25.18	83	18.46	38	51.25	88	55.212	124	30.38	43	45.370	137	63.10	71
Feb. 9	4.126	146	24.35	99	18.08	36	50.37	135	55.088	119	29.95	31	45.233	132	62.39	79
19	3.980	130	23.36	111	17.72	32	49.02	176	54.969	107	29.64	18	45.101	118	61.60	82
März 1	3.850	105	22.25	117	17.40	27	47.26	210	54.862	86	29.46	3	44.983	95	60.78	81
11	3.745	72	21.08	116	17.13	19	45.16	233	54.776	58	29.43	15	44.888	64	59.97	75
21	3.673	30	19.92	110	16.94	11	42.83	246	54.718	24	29.58	35	44.824	27	59.22	63
31	3.643	16	18.82	97	16.83	2	40.37	249	54.694	14	29.93	57	44.797	15	58.59	47
Apr. 10	3.659	67	17.85	78	16.81	8	37.88	241	54.708	58	30.50	80	44.812	63	58.12	27
20	3.726	118	17.07	55	16.89	17	35.47	223	54.766	102	31.30	103	44.875	111	57.85	3
30	3.844	169	16.52	28	17.06	27	33.24	198	54.868	147	32.33	126	44.986	158	57.82	23
Mai 10	4.013	216	16.24	3	17.33	35	31.26	164	55.015	188	33.59	147	45.144	203	58.05	50
20	4.229	259	16.27	33	17.68	43	29.62	125	55.203	227	35.06	164	45.347	243	58.55	77
30	4.488	294	16.60	65	18.11	49	28.37	81	55.430	260	36.70	181	45.590	277	59.32	104
Juni 9	4.782	323	17.25	95	18.60	54	27.56	35	55.690	286	38.51	192	45.867	304	60.36	128
19	5.105	343	18.20	122	19.14	57	27.21	12	55.976	305	40.43	198	46.171	324	61.64	149
29	5.448	354	19.42	147	19.71	60	27.33	60	56.281	317	42.41	199	46.495	335	63.13	166
Juli 9	5.802	357	20.89	169	20.31	60	27.93	105	56.598	320	44.40	195	46.830	338	64.79	179
19	6.159	351	22.58	185	20.91	59	28.98	148	56.918	316	46.35	187	47.168	334	66.58	188
29	6.510	338	24.43	197	21.50	57	30.46	188	57.234	305	48.22	173	47.502	321	68.46	191
Aug. 8	6.848	319	26.40	204	22.07	55	32.34	224	57.539	288	49.95	155	47.823	304	70.37	190
18	7.167	294	28.44	207	22.62	50	34.58	254	57.827	265	51.50	134	48.127	280	72.27	185
28	7.461	265	30.51	206	23.12	45	37.12	280	58.092	240	52.84	110	48.407	252	74.12	177
Sept. 7	7.726	234	32.57	201	23.57	40	39.92	301	58.332	210	53.94	85	48.659	223	75.89	164
17	7.960	200	34.58	192	23.97	34	42.93	314	58.542	179	54.79	60	48.882	191	77.53	150
27	8.160	166	36.50	181	24.31	27	46.07	323	58.721	148	55.39	35	49.073	159	79.03	134
Okt. 7	8.326	131	38.31	167	24.58	20	49.30	325	58.869	116	55.74	11	49.232	126	80.37	116
17	8.457	97	39.98	152	24.78	14	52.55	321	58.985	86	55.85	9	49.358	95	81.53	99
26	19 8.554	64	41.50	133	19 24.92	7	55.76	309	19 59.071	56	55.76	27	19 49.453	63	82.52	81
Nov. 5	8.618	31	42.83	114	24.99	1	58.85	292	59.127	28	55.49	41	49.516	34	83.33	63
15	8.649	0	43.97	94	24.98	7	61.77	266	59.155	0	55.08	52	49.550	4	83.96	45
25	8.649	31	44.91	72	24.91	14	64.43	235	59.155	25	54.56	59	49.554	24	84.41	27
Dez. 5	8.618	60	45.63	48	24.77	20	66.78	196	59.130	48	53.97	63	49.530	50	84.68	10
15	8.558	87	46.11	24	24.57	27	68.74	152	59.082	70	53.34	64	49.480	75	84.78	6
25	8.471	110	46.35	0	24.30	31	70.26	102	59.012	90	52.70	64	49.405	96	84.72	24
35	8.361		46.35		23.99		71.28		58.922		52.06		49.309		84.48	
Mittl. Ort	5.122		18.69		20.25		34.62		55.767		33.03		46.092		59.58	
sec δ, tg δ	1.146		+0.560		2.228		+1.991		1.001		+0.050		1.067		+0.373	

Scheinbare Sternörter 1930

Tag	67) ψ Phoenicis AR.		67) ψ Phoenicis Dekl.		68) χ Eridani AR.		68) χ Eridani Dekl.		72) α Hydri AR.		72) α Hydri Dekl.		71) υ Ceti AR.		71) υ Ceti Dekl.	
1930	1h 50m		−46° 38′		1h 53m		−51° 56′		1h 56m		−61° 54′		1h 56m		−21° 24′	
	s		″		s		″		s		″		s		″	
Jan. 0	50.992	217	58.40	72	14.777	254	102.32	67	35.15	37	54.47	59	42.482	123	67.48	84
10	50.775	229	59.12	20	14.523	267	102.99	13	34.78	39	55.06	0	42.359	135	68.32	54
20	50.546	232	59.32	31	14.256	271	103.12	40	34.39	39	55.06	57	42.224	143	68.86	22
30	50.314	228	59.01	81	13.985	264	102.72	94	34.00	38	54.49	114	42.081	144	69.08	10
Feb. 9	50.086	216	58.20	129	13.721	250	101.78	144	33.62	36	53.35	168	41.937	139	68.98	44
19	49.870	194	56.91	174	13.471	226	100.34	190	33.26	33	51.67	216	41.798	126	68.54	76
März 1	49.676	164	55.17	215	13.245	193	98.44	233	32.93	28	49.51	259	41.672	106	67.78	107
11	49.512	126	53.02	252	13.052	150	96.11	270	32.65	23	46.92	296	41.566	78	66.71	139
21	49.386	81	50.50	282	12.902	101	93.41	301	32.42	16	43.96	327	41.488	43	65.32	167
31	49.305	31	47.68	308	12.801	45	90.40	326	32.26	9	40.69	350	41.445	4	63.65	193
Apr. 10	49.274	25	44.60	327	12.756	15	87.14	343	32.17	2	37.19	366	41.441	40	61.72	216
20	49.299	83	41.33	339	12.771	78	83.71	355	32.15	6	33.53	375	41.481	86	59.56	236
30	49.382	140	37.94	345	12.849	142	80.16	359	32.21	14	29.78	375	41.567	132	57.20	252
Mai 10	49.522	197	34.49	343	12.991	203	76.57	355	32.35	22	26.03	367	41.699	177	54.68	263
20	49.719	249	31.06	333	13.194	262	73.02	343	32.57	30	22.36	351	41.876	217	52.05	267
30	49.968	296	27.73	316	13.456	314	69.59	323	32.87	37	18.85	328	42.093	254	49.38	267
Juni 9	50.264	336	24.57	291	13.770	358	66.36	295	33.24	42	15.57	295	42.347	284	46.71	259
19	50.600	368	21.66	259	14.128	394	63.41	261	33.66	47	12.62	257	42.631	306	44.12	246
29	50.968	389	19.07	221	14.522	420	60.80	219	34.13	50	10.05	211	42.937	322	41.66	226
Juli 9	51.357	400	16.86	177	14.942	434	58.61	173	34.63	53	7.94	160	43.259	329	39.40	200
19	51.757	402	15.09	128	15.376	437	56.88	122	35.16	54	6.34	105	43.588	328	37.40	170
29	52.159	393	13.81	75	15.813	429	55.66	66	35.70	53	5.29	47	43.916	318	35.70	133
Aug. 8	52.552	374	13.06	21	16.242	409	55.00	10	36.23	51	4.82	12	44.234	303	34.37	95
18	52.926	346	12.85	33	16.651	379	54.90	46	36.74	47	4.94	70	44.537	281	33.42	54
28	53.272	310	13.18	85	17.030	341	55.36	100	37.21	42	5.64	127	44.818	254	32.88	13
Sept. 7	53.582	267	14.03	135	17.371	294	56.36	150	37.63	36	6.91	178	45.072	223	32.75	28
17	53.849	219	15.38	178	17.665	241	57.86	195	37.99	30	8.69	222	45.295	189	33.03	66
27	54.068	169	17.16	215	17.906	185	59.81	231	38.29	23	10.91	259	45.484	154	33.69	99
Okt. 7	54.237	116	19.31	242	18.091	125	62.12	258	38.52	14	13.50	284	45.638	118	34.68	128
17	54.353	64	21.73	259	18.216	66	64.70	275	38.66	6	16.34	299	45.756	83	35.96	150
26	54.417	13	24.32	266	18.282	8	67.45	281	38.72	2	19.33	302	45.839	49	37.46	165
Nov. 5	54.430	35	26.98	261	18.290	48	70.26	274	38.70	9	22.35	293	45.888	17	39.11	171
15	54.395	80	29.59	247	18.242	100	73.00	257	38.61	17	25.28	271	45.905	14	40.82	171
25	54.315	120	32.06	222	18.142	145	75.57	229	38.44	23	27.99	238	45.891	43	42.53	162
Dez. 5	54.195	155	34.28	188	17.997	184	77.86	193	38.21	28	30.37	198	45.848	68	44.15	147
15	54.040	184	36.16	148	17.813	218	79.79	149	37.93	32	32.35	149	45.780	92	45.62	127
25	53.856	207	37.64	101	17.595	244	81.28	100	37.61	36	33.84	95	45.688	111	46.89	101
35	53.649		38.65		17.351		82.28		37.25		34.79		45.577		47.90	
Mittl. Ort	50.432		42.88		14.008		85.85		33.81		36.58		42.398		58.88	
sec δ, tg δ	1.457		−1.059		1.623		−1.278		2.124		−1.874		1.074		−0.392	

Tag	70) 50 Cassiopeiae AR.	Δ	70) 50 Cassiopeiae Dekl.	Δ	73) γ Andromedae AR.	Δ	73) γ Andromedae Dekl.	Δ
1930	1h 57m		+72° 4′		1h 59m		+41° 59′	
Jan. 0	24.35s	54	78.81″	104	35.173s	159	52.02″	24
10	23.81	58	79.85	47	35.014	181	52.26	13
20	23.23	61	80.32	12	34.833	194	52.13	48
30	22.62	60	80.20	70	34.639	198	51.65	82
Feb. 9	22.02	58	79.50	124	34.441	190	50.83	111
19	21.44	51	78.26	172	34.251	173	49.72	135
März 1	20.93	44	76.54	212	34.078	144	48.37	153
11	20.49	33	74.42	243	33.934	104	46.84	164
21	20.16	21	71.99	262	33.830	56	45.20	166
31	19.95	8	69.37	272	33.774	2	43.54	160
Apr. 10	19.87	6	66.65	269	33.772	58	41.94	148
20	19.93	20	63.96	256	33.830	117	40.46	127
30	20.13	33	61.40	233	33.947	177	39.19	102
Mai 10	20.46	45	59.07	203	34.124	233	38.17	71
20	20.91	56	57.04	164	34.357	282	37.46	37
30	21.47	66	55.40	121	34.639	325	37.09	0
Juni 9	22.13	73	54.19	74	34.964	359	37.09	35
19	22.86	78	53.45	25	35.323	384	37.44	72
29	23.64	82	53.20	25	35.707	398	38.16	106
Juli 9	24.46	83	53.45	75	36.105	403	39.22	138
19	25.29	83	54.20	122	36.508	400	40.60	165
29	26.12	80	55.42	168	36.908	387	42.25	189
Aug. 8	26.92	77	57.10	209	37.295	367	44.14	209
18	27.69	71	59.19	246	37.662	342	46.23	224
28	28.40	65	61.65	278	38.004	311	48.47	234
Sept. 7	29.05	57	64.43	305	38.315	276	50.81	240
17	29.62	49	67.48	325	38.591	240	53.21	241
27	30.11	39	70.73	340	38.831	201	55.62	239
Okt. 7	30.50	30	74.13	348	39.032	161	58.01	231
17	30.80	20	77.61	348	39.193	122	60.32	221
26	31.00	9	81.09	342	39.315	81	62.53	207
Nov. 5	31.09	1	84.51	327	39.396	42	64.60	188
15	31.08	12	87.78	304	39.438	2	66.48	166
25	30.96	23	90.82	274	39.440	36	68.14	141
Dez. 5	30.73	33	93.56	235	39.404	74	69.55	112
15	30.40	42	95.91	190	39.330	108	70.67	80
25	29.98	49	97.81	139	39.222	140	71.47	44
35	29.49		99.20		39.082		71.91	
Mittl. Ort	25.03		61.33		35.609		40.52	
sec δ, tg δ	3.251		+3.093		1.345		+0.900	

Tag	74) α Arietis AR.	Δ	74) α Arietis Dekl.	Δ	75) β Trianguli AR.	Δ	75) β Trianguli Dekl.	Δ
1930	2h 3m		+23° 7′		2h 5m		+34° 39′	
Jan. 0	13.027s	110	62.23″	22	21.910s	132	34.85″	8
10	12.917	127	62.01	39	21.778	152	34.93	21
20	12.790	140	61.62	55	21.626	167	34.72	48
30	12.650	144	61.07	68	21.459	172	34.24	74
Feb. 9	12.506	141	60.39	79	21.287	167	33.50	97
19	12.365	129	59.60	86	21.120	153	32.53	115
März 1	12.236	107	58.74	87	20.967	128	31.38	126
11	12.129	78	57.87	84	20.839	94	30.12	133
21	12.051	40	57.03	76	20.745	52	28.79	131
31	12.011	4	56.27	62	20.693	3	27.48	124
Apr. 10	12.015	50	55.65	43	20.690	50	26.24	109
20	12.065	100	55.22	22	20.740	105	25.15	88
30	12.165	149	55.00	4	20.845	159	24.27	64
Mai 10	12.314	195	55.04	30	21.004	211	23.63	34
20	12.509	237	55.34	58	21.215	257	23.29	3
30	12.746	274	55.92	85	21.472	297	23.26	29
Juni 9	13.020	303	56.77	110	21.769	330	23.55	61
19	13.323	325	57.87	133	22.099	353	24.16	92
29	13.648	337	59.20	153	22.452	368	25.08	121
Juli 9	13.985	343	60.73	168	22.820	373	26.29	147
19	14.328	340	62.41	179	23.193	371	27.76	168
29	14.668	330	64.20	185	23.564	360	29.44	185
Aug. 8	14.998	314	66.05	188	23.924	343	31.29	199
18	15.312	292	67.93	185	24.267	320	33.28	208
28	15.604	266	69.78	180	24.587	292	35.36	211
Sept. 7	15.870	238	71.58	170	24.879	262	37.47	212
17	16.108	206	73.28	158	25.141	228	39.59	209
27	16.314	175	74.86	144	25.369	193	41.68	202
Okt. 7	16.489	142	76.30	129	25.562	158	43.70	192
17	16.631	111	77.59	113	25.720	122	45.62	180
26	16.742	78	78.72	95	25.842	86	47.42	164
Nov. 5	16.820	48	79.67	78	25.928	51	49.06	147
15	16.868	16	80.45	61	25.979	16	50.53	127
25	16.884	13	81.06	43	25.995	19	51.80	105
Dez. 5	16.871	42	81.49	24	25.976	53	52.85	80
15	16.829	69	81.73	7	25.923	85	53.65	53
25	16.760	94	81.80	11	25.838	114	54.18	26
35	16.666		81.69		25.724		54.44	
Mittl. Ort	13.322		56.16		22.262		25.28	
sec δ, tg δ	1.087		+0.427		1.216		+0.691	

Scheinbare Sternörter 1930

Tag	76) 55 Cassiopeiae AR.		Dekl.		78) Lac. ν Fornacis AR.		Dekl.		80) 67 Ceti AR.		Dekl.		85) ξ² Ceti AR.		Dekl.	
1930	2h 8m		+66° 11'		2h 9m		−31° 2'		2h 13m		−6° 44'		2h 24m		+8° 8'	
Jan. 0	57.34	37	67.75	102	49.880	144	76.67	96	29.424	99	41.85	79	25.985	91	51.58	51
10	56.97	41	68.77	48	49.736	160	77.63	57	29.325	117	42.64	63	25.894	112	51.07	52
20	56.56	44	69.25	7	49.576	169	78.20	17	29.208	128	43.27	46	25.782	126	50.55	50
30	56.12	44	69.18	61	49.407	172	78.37	25	29.080	133	43.73	27	25.656	134	50.05	46
Feb. 9	55.68	43	68.57	112	49.235	167	78.12	65	28.947	132	44.00	6	25.522	135	49.59	42
19	55.25	39	67.45	157	49.068	155	77.47	104	28.815	123	44.06	15	25.387	127	49.17	34
März 1	54.86	33	65.88	195	48.913	134	76.43	142	28.692	106	43.91	38	25.260	112	48.83	23
11	54.53	26	63.93	224	48.779	106	75.01	176	28.586	81	43.53	61	25.148	87	48.60	10
21	54.27	17	61.69	244	48.673	71	73.25	209	28.505	49	42.92	85	25.061	55	48.50	5
31	54.10	7	59.25	252	48.602	29	71.16	237	28.456	11	42.07	109	25.006	17	48.55	23
Apr. 10	54.03	3	56.73	251	48.573	17	68.79	260	28.445	31	40.98	133	24.989	26	48.78	44
20	54.06	15	54.22	239	48.590	66	66.19	279	28.476	75	39.65	154	25.015	71	49.22	66
30	54.21	25	51.83	217	48.656	115	63.40	293	28.551	119	38.11	175	25.086	117	49.88	88
Mai 10	54.46	34	49.66	189	48.771	163	60.47	301	28.670	164	36.36	192	25.203	162	50.76	109
20	54.80	43	47.77	152	48.934	208	57.46	301	28.834	204	34.44	206	25.365	203	51.85	129
30	55.23	51	46.25	112	49.142	249	54.45	296	29.038	239	32.38	216	25.568	240	53.14	148
Juni 9	55.74	57	45.13	68	49.391	284	51.49	282	29.277	269	30.22	219	25.808	270	54.62	162
19	56.31	61	44.45	21	49.675	311	48.67	263	29.546	293	28.03	219	26.078	295	56.24	174
29	56.92	65	44.24	27	49.986	331	46.04	237	29.839	308	25.84	213	26.373	310	57.98	180
Juli 9	57.57	66	44.51	73	50.317	341	43.67	204	30.147	315	23.71	200	26.683	319	59.78	181
19	58.23	66	45.24	117	50.658	344	41.63	166	30.462	316	21.71	182	27.002	320	61.59	179
29	58.89	65	46.41	159	51.002	338	39.97	124	30.778	310	19.89	161	27.322	315	63.38	171
Aug. 8	59.54	62	48.00	198	51.340	324	38.73	77	31.088	296	18.28	134	27.637	303	65.09	158
18	60.16	58	49.98	232	51.664	304	37.96	30	31.384	278	16.94	104	27.940	285	66.67	143
28	60.74	53	52.30	262	51.968	277	37.66	18	31.662	254	15.90	73	28.225	263	68.10	123
Sept. 7	61.27	48	54.92	287	52.245	245	37.84	64	31.916	228	15.17	40	28.488	239	69.33	103
17	61.75	41	57.79	305	52.490	210	38.48	106	32.144	198	14.77	9	28.727	211	70.36	81
27	62.16	34	60.84	318	52.700	172	39.54	144	32.342	168	14.68	22	28.938	183	71.17	58
Okt. 7	62.50	28	64.02	326	52.872	133	40.98	176	32.510	136	14.90	48	29.121	153	71.75	37
17	62.78	20	67.28	326	53.005	93	42.74	199	32.646	105	15.38	70	29.274	123	72.12	17
26*)	24 62.98	12	70.54	320	24 53.098	55	44.73	213	25 32.751	75	16.08	89	29.397	94	72.29	1
Nov. 5	63.10	4	73.74	306	53.153	18	46.86	218	32.826	45	16.97	101	28 29.491	64	72.28	16
15	63.14	4	76.80	286	53.171	17	49.04	214	32.871	16	17.98	108	29.555	34	72.12	27
25	63.10	12	79.66	258	53.154	51	51.18	201	32.887	12	19.06	109	29.589	6	71.85	37
Dez. 5	62.98	20	82.24	223	53.103	81	53.19	180	32.875	39	20.15	106	29.595	23	71.48	44
15	62.78	27	84.47	181	53.022	108	54.99	152	32.836	63	21.21	99	29.572	50	71.04	49
25	62.51	34	86.28	133	52.914	132	56.51	119	32.773	86	22.20	88	29.522	76	70.55	51
35	62.17		87.61		52.782		57.70		32.687		23.08		29.446		70.04	
Mittl. Ort	57.80		51.07		49.560		65.95		29.422		38.54		26.057		49.76	
sec δ, tg δ	2.478		+2.267		1.167		−0.602		1.007		−0.118		1.010		+0.143	

*) Bei Stern 85) lies Okt. 27.

Tag	87) 36 H. Cassiopeiae				90) μ Hydri			
	AR.		Dekl.		AR.		Dekl.	
1930	2h 31m		+72° 30′		2h 33m		−79° 24′	
Jan. 0	20.03	50	66.82	146	12.46	114	70.71	81
10	19.53	56	68.28	91	11.32	119	71.52	21
20	18.97	61	69.19	34	10.13	122	71.73	40
30	18.36	63	69.53	24	8.91	121	71.33	100
Feb. 9	17.73	62	69.29	80	7.70	117	70.33	155
19	17.11	58	68.49	132	6.53	110	68.78	207
März 1	16.53	51	67.17	178	5.43	100	66.71	253
11	16.02	42	65.39	215	4.43	87	64.18	293
21	15.60	31	63.24	243	3.56	73	61.25	325
31	15.29	18	60.81	260	2.83	57	58.00	350
Apr. 10	15.11	4	58.21	266	2.26	39	54.50	369
20	15.07	11	55.55	263	1.87	19	50.81	378
30	15.18	24	52.92	248	1.68	1	47.03	380
Mai 10	15.42	37	50.44	225	1.67	19	43.23	374
20	15.79	50	48.19	194	1.86	39	39.49	359
30	16.29	60	46.25	156	2.25	56	35.90	336
Juni 9	16.89	70	44.69	114	2.81	73	32.54	306
19	17.59	77	43.55	69	3.54	88	29.48	267
29	18.36	82	42.86	22	4.42	100	26.81	222
Juli 9	19.18	85	42.64	26	5.42	110	24.59	172
19	20.03	86	42.90	74	6.52	117	22.87	116
29	20.89	86	43.64	119	7.69	119	21.71	57
Aug. 8	21.75	83	44.83	163	8.88	119	21.14	4
18	22.58	80	46.46	202	10.07	114	21.18	64
28	23.38	75	48.48	238	11.21	106	21.82	123
Sept. 7	24.13	68	50.86	269	12.27	94	23.05	178
17	24.81	60	53.55	295	13.21	80	24.83	226
27	25.41	51	56.50	315	14.01	61	27.09	265
Okt. 7	25.92	43	59.65	330	14.62	42	29.74	296
17	26.35	33	62.95	337	15.04	20	32.70	314
27	[30] 26.68	21	66.32	338	[30] 15.24	2	35.84	321
Nov. 5	26.89	11	69.70	332	15.22	24	39.05	314
15	27.00	1	73.02	316	14.98	45	42.19	294
25	26.99	12	76.18	294	14.53	65	45.13	264
Dez. 5	26.87	24	79.12	262	13.88	82	47.77	223
15	26.63	34	81.74	223	13.06	97	50.00	174
25	26.29	44	83.97	177	12.09	108	51.74	119
35	25.85		85.74		11.01		52.93	
Mittl. Ort	20.10		49.35		6.69		53.86	
sec δ, tg δ	3.328		+3.174		5.444		−5.351	

Tag	89) ν Arietis				91) δ Ceti			
	AR.		Dekl.		AR.		Dekl.	
1930	2h 34m		+21° 39′		2h 35m		+0° 1′	
Jan. 0	50.093	95	41.04	13	53.593	88	38.24	71
10	49.998	119	40.91	27	53.505	110	37.53	62
20	49.879	137	40.64	41	53.395	125	36.91	51
30	49.742	148	40.23	51	53.270	136	36.40	39
Feb. 9	49.594	150	39.72	61	53.134	138	36.01	25
19	49.444	144	39.11	67	52.996	133	35.76	9
März 1	49.300	128	38.44	69	52.863	118	35.67	8
11	49.172	102	37.75	68	52.745	97	35.75	27
21	49.070	68	37.07	62	52.648	66	36.02	46
31	49.002	28	36.45	51	52.582	29	36.48	68
Apr. 10	48.974	18	35.94	36	52.553	12	37.16	90
20	48.992	67	35.58	17	52.565	56	38.06	112
30	49.059	116	35.41	4	52.621	101	39.18	132
Mai 10	49.175	164	35.45	28	52.722	146	40.50	152
20	49.339	209	35.73	52	52.868	188	42.02	170
30	49.548	248	36.25	76	53.056	225	43.72	183
Juni 9	49.796	281	37.01	99	53.281	258	45.55	192
19	50.077	307	38.00	120	53.539	282	47.47	197
29	50.384	325	39.20	137	53.821	301	49.44	197
Juli 9	50.709	336	40.57	151	54.122	312	51.41	191
19	51.045	338	42.08	161	54.434	315	53.32	181
29	51.383	334	43.69	166	54.749	311	55.13	166
Aug. 8	51.717	323	45.35	168	55.060	302	56.79	146
18	52.040	306	47.03	165	55.362	286	58.25	122
28	52.346	285	48.68	159	55.648	266	59.47	96
Sept. 7	52.631	260	50.27	150	55.914	243	60.43	69
17	52.891	234	51.77	138	56.157	217	61.12	40
27	53.125	204	53.15	125	56.374	189	61.52	12
Okt. 7	53.329	175	54.40	111	56.563	160	61.64	11
17	53.504	144	55.51	95	56.723	130	61.53	34
27	[31] 53.648	113	56.46	81	[31] 56.853	101	61.19	53
Nov. 5	53.761	82	57.27	66	56.954	71	60.66	67
15	53.843	49	57.93	52	57.025	41	59.99	76
25	53.892	17	58.45	37	57.066	11	59.23	82
Dez. 5	53.909	15	58.82	23	57.077	18	58.41	83
15	53.894	46	59.05	9	57.059	45	57.58	81
25	53.848	76	59.14	6	57.014	72	56.77	77
35	53.772		59.08		56.942		56.00	
Mittl. Ort	50.195		34.82		53.538		38.61	
sec δ, tg δ	1.076		+0.397		1.000		0.000	

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Tag	93) ϑ Persei AR.		93) ϑ Persei Dekl.		97) π Ceti AR.		97) π Ceti Dekl.		98) μ Ceti AR.		98) μ Ceti Dekl.		100) 41 Arietis AR.		100) 41 Arietis Dekl.	
1930	2h 39m		+48° 55′		2h 40m		−14° 8′		2h 41m		+9° 49′		2h 45m		+26° 58′	
Jan. 0	24.300	164	74.11	78	47.638	99	79.91	101	9.289	85	13.07	46	51.415	96	30.91	8
10	24.136	199	74.89	40	47.539	121	80.92	78	9.204	108	12.61	48	51.319	123	30.99	11
20	23.937	224	75.29	1	47.418	137	81.70	52	9.096	125	12.13	47	51.196	144	30.88	29
30	23.713	240	75.28	40	47.281	147	82.22	25	8.971	137	11.66	45	51.052	157	30.59	46
Feb. 9	23.473	242	74.88	78	47.134	149	82.47	3	8.834	141	11.21	42	50.895	162	30.13	61
19	23.231	230	74.10	111	46.985	144	82.44	31	8.693	136	10.79	36	50.733	157	29.52	73
März 1	23.001	205	72.99	140	46.841	131	82.13	60	8.557	122	10.43	27	50.576	142	28.79	82
11	22.796	167	71.59	161	46.710	109	81.53	89	8.435	99	10.16	17	50.434	117	27.97	85
21	22.629	119	69.98	176	46.601	79	80.64	116	8.336	69	9.99	3	50.317	82	27.12	84
31	22.510	60	68.22	181	46.522	42	79.48	142	8.267	32	9.96	13	50.235	40	26.28	78
Apr. 10	22.450	4	66.41	179	46.480	2	78.06	168	8.235	11	10.09	32	50.195	7	25.50	66
20	22.454	72	64.62	168	46.478	43	76.38	190	8.246	56	10.41	53	50.202	58	24.84	50
30	22.526	141	62.94	150	46.521	89	74.48	210	8.302	103	10.94	74	50.260	109	24.34	30
Mai 10	22.667	206	61.44	126	46.610	134	72.38	226	8.405	148	11.68	95	50.369	159	24.04	7
20	22.873	267	60.18	98	46.744	177	70.12	237	8.553	191	12.63	115	50.528	207	23.97	17
30	23.140	320	59.20	65	46.921	216	67.75	243	8.744	229	13.78	134	50.735	248	24.14	43
Juni 9	23.460	366	58.55	29	47.137	250	65.32	245	8.973	262	15.12	149	50.983	285	24.57	67
19	23.826	401	58.26	7	47.387	278	62.87	239	9.235	288	16.61	162	51.268	312	25.24	91
29	24.227	427	58.33	43	47.665	298	60.48	227	9.523	306	18.23	169	51.580	333	26.15	112
Juli 9	24.654	442	58.76	78	47.963	311	58.21	210	9.829	318	19.92	173	51.913	345	27.27	131
19	25.096	448	59.54	111	48.274	316	56.11	187	10.147	321	21.65	172	52.258	350	28.58	145
29	25.544	443	60.65	142	48.590	314	54.24	158	10.468	319	23.37	165	52.608	347	30.03	156
Aug. 8	25.987	431	62.07	168	48.904	306	52.66	126	10.787	308	25.02	156	52.955	337	31.59	163
18	26.418	411	63.75	191	49.210	291	51.40	90	11.095	294	26.58	141	53.292	322	33.22	166
28	26.829	385	65.66	210	49.501	272	50.50	52	11.389	275	27.99	124	53.614	303	34.88	165
Sept. 7	27.214	354	67.76	225	49.773	248	49.98	14	11.664	252	29.23	105	53.917	278	36.53	160
17	27.568	319	70.01	235	50.021	222	49.84	24	11.916	226	30.28	84	54.195	252	38.13	154
27	27.887	280	72.36	242	50.243	192	50.08	59	12.142	199	31.12	63	54.447	224	39.67	145
Okt. 7	28.167	240	74.78	244	50.435	161	50.67	90	12.341	171	31.75	42	54.671	194	41.12	135
17	28.407	196	77.22	242	50.596	130	51.57	116	12.512	142	32.17	23	54.865	162	42.47	123
27	28.603	151	79.64	235	50.726	98	52.73	135	12.654	112	32.40	6	55.027	130	43.70	110
Nov. 5	28.754	104	81.99	225	50.824	66	54.08	148	12.766	82	32.46	9	55.157	98	44.80	96
15	28.858	56	84.24	209	50.890	34	55.56	154	12.848	52	32.37	20	55.255	63	45.76	83
25	28.914	6	86.33	189	50.924	3	57.10	153	12.900	22	32.17	30	55.318	28	46.59	68
Dez. 5	28.920	43	88.22	164	50.927	27	58.63	146	12.922	9	31.87	37	55.346	7	47.27	52
15	28.877	91	89.86	134	50.900	56	60.09	132	12.913	38	31.50	43	55.339	42	47.79	35
25	28.786	136	91.20	100	50.844	83	61.41	115	12.875	67	31.07	46	55.297	74	48.14	18
35	28.650		92.20		50.761		62.56		12.808		30.61		55.223		48.32	
Mittl. Ort	24.449		60.70		47.406		75.47		9.284		10.28		51.479		23.00	
sec δ, tg δ	1.522		+1.148		1.031		−0.252		1.015		+0.173		1.122		+0.509	

Tag	101) β Fornacis AR.		101) β Fornacis Dekl.		102) τ² Eridani AR.		102) τ² Eridani Dekl.		103) τ Persei AR.		103) τ Persei Dekl.		104) η Eridani AR.		104) η Eridani Dekl.	
1930	2h 46m		−32° 41′		2h 47m		−21° 17′		2h 49m		+52° 28′		2h 52m		−9° 10′	
Jan. 0	10.190	139	66.11	128	52.135	109	37.07	116	16.853	176	52.41	99	60.616	89	35.65	97
10	10.051	162	67.39	88	52.026	131	38.23	87	16.677	217	53.40	59	60.527	112	36.62	78
20	9.889	179	68.27	47	51.895	149	39.10	54	16.460	247	53.99	16	60.415	130	37.40	58
30	9.710	190	68.74	3	51.746	160	39.64	20	16.213	265	54.15	26	60.285	143	37.98	35
Feb. 9	9.520	191	68.77	40	51.586	164	39.84	14	15.948	270	53.89	67	60.142	148	38.33	12
19	9.329	185	68.37	82	51.422	158	39.70	48	15.678	260	53.22	104	59.994	145	38.45	12
März 1	9.144	169	67.55	123	51.264	145	39.22	82	15.418	235	52.18	137	59.849	134	38.33	38
11	8.975	145	66.32	162	51.119	124	38.40	115	15.183	196	50.81	163	59.715	113	37.95	63
21	8.830	113	64.70	196	50.995	94	37.25	146	14.987	144	49.18	181	59.602	85	37.32	88
31	8.717	73	62.74	228	50.901	57	35.79	176	14.843	84	47.37	191	59.517	50	36.44	113
Apr. 10	8.644	28	60.46	255	50.844	15	34.03	202	14.759	15	45.46	192	59.467	10	35.31	137
20	8.616	20	57.91	278	50.829	29	32.01	225	14.744	58	43.54	185	59.457	34	33.94	160
30	8.636	70	55.13	295	50.858	77	29.76	244	14.802	131	41.69	170	59.491	80	32.34	180
Mai 10	8.706	122	52.18	306	50.935	124	27.32	258	14.933	202	39.99	148	59.571	125	30.54	198
20	8.828	170	49.12	310	51.059	169	24.74	268	15.135	268	38.51	121	59.696	168	28.56	211
30	8.998	214	46.02	308	51.228	209	22.06	270	15.403	327	37.30	89	59.864	208	26.45	221
Juni 9	9.212	254	42.94	297	51.437	246	19.36	268	15.730	378	36.41	54	60.072	242	24.24	225
19	9.466	288	39.97	281	51.683	275	16.68	258	16.108	418	35.87	17	60.314	270	21.99	224
29	9.754	313	37.16	256	51.958	298	14.10	241	16.526	447	35.70	21	60.584	291	19.75	217
Juli 9	10.067	331	34.60	226	52.256	314	11.69	219	16.973	467	35.91	57	60.875	305	17.58	204
19	10.398	341	32.34	188	52.570	321	9.50	190	17.440	475	36.48	92	61.180	312	15.54	186
29	10.739	342	30.46	145	52.891	321	7.60	155	17.915	473	37.40	125	61.492	312	13.68	163
Aug. 8	11.081	335	29.01	98	53.212	313	6.05	118	18.388	463	38.65	155	61.804	305	12.05	134
18	11.416	322	28.03	49	53.525	301	4.87	75	18.851	444	40.20	181	62.109	293	10.71	102
28	11.738	301	27.54	2	53.826	282	4.12	32	19.295	419	42.01	204	62.402	275	9.69	69
Sept. 7	12.039	274	27.56	51	54.108	258	3.80	11	19.714	388	44.05	222	62.677	254	9.00	33
17	12.313	243	28.07	99	54.366	230	3.91	53	20.102	352	46.27	236	62.931	229	8.67	2
27	12.556	210	29.06	141	54.596	201	4.44	92	20.454	312	48.63	247	63.160	201	8.69	35
Okt. 7	12.766	172	30.47	177	54.797	169	5.36	126	20.766	270	51.10	253	63.361	173	9.04	65
17	12.938	134	32.24	207	54.966	135	6.62	153	21.036	223	53.63	253	63.534	143	9.69	90
27	13.072	95	34.31	226	55.101	102	8.15	174	21.259	175	56.16	251	63.677	113	10.59	110
Nov. 5	13.167	55	36.57	236	55.203	67	9.89	187	21.434	123	58.67	242	63.790	82	11.69	125
15	13.222	16	38.93	237	55.270	34	11.76	191	21.557	70	61.09	228	63.872	51	12.94	133
25	13.238	21	41.30	228	55.304	0	13.67	187	21.627	15	63.37	210	63.923	19	14.27	134
Dez. 5	13.217	58	43.58	209	55.304	32	15.54	176	21.642	40	65.47	185	63.942	12	15.61	130
15	13.159	91	45.67	184	55.272	64	17.30	157	21.602	93	67.32	156	63.930	42	16.91	122
25	13.068	122	47.51	152	55.208	92	18.87	135	21.509	144	68.88	121	63.888	71	18.13	108
35	12.946		49.03		55.116		20.22		21.365		70.09		63.817		19.21	
Mittl. Ort	9.616		57.00		51.766		30.96		16.911		38.29		60.382		33.17	
sec δ, tg δ	1.188		−0.642		1.073		−0.390		1.642		+1.302		1.013		−0.162	

Tag	106) ϑ Eridani AR.		106) ϑ Eridani Dekl.		105) 47 H. Cephei AR.		105) 47 H. Cephei Dekl.		107) α Ceti AR.		107) α Ceti Dekl.		108) γ Persei AR.		108) γ Persei Dekl.	
1930	$2^h\ 55^m$		$-40°\ 34'$		$2^h\ 56^m$		$+79°\ 8'$		$2^h\ 58^m$		$+3°\ 48'$		$2^h\ 59^m$		$+53°\ 13'$	
Jan. 0	37.127	167	74.07	142	42.97	78	58.62	194	37.190	77	59.36	64	42.847	171	75.41	111
10	36.960	193	75.49	98	42.19	90	60.56	140	37.113	103	58.72	58	42.676	214	76.52	71
20	36.767	213	76.47	50	41.29	100	61.96	81	37.010	123	58.14	51	42.462	249	77.23	29
30	36.554	225	76.97	1	40.29	105	62.77	20	36.887	137	57.63	42	42.213	270	77.52	14
Feb. 9	36.329	228	76.98	47	39.24	105	62.97	40	36.750	145	57.21	32	41.943	278	77.38	56
19	36.101	221	76.51	95	38.19	100	62.57	98	36.605	142	56.89	20	41.665	271	76.82	94
März 1	35.880	206	75.56	139	37.19	92	61.59	150	36.463	131	56.69	6	41.394	248	75.88	129
11	35.674	180	74.17	181	36.27	79	60.09	197	36.332	112	56.63	8	41.146	211	74.59	156
21	35.494	145	72.36	219	35.48	62	58.12	233	36.220	84	56.71	26	40.935	161	73.03	176
31	35.349	104	70.17	253	34.86	43	55.79	260	36.136	49	56.97	45	40.774	99	71.27	189
Apr. 10	35.245	57	67.64	281	34.43	23	53.19	275	36.087	8	57.42	65	40.675	31	69.38	193
20	35.188	4	64.83	305	34.20	0	50.44	280	36.079	37	58.07	85	40.644	42	67.45	188
30	35.184	51	61.78	321	34.20	23	47.64	274	36.116	82	58.92	105	40.686	116	65.57	176
Mai 10	35.235	106	58.57	331	34.43	43	44.90	259	36.198	127	59.97	125	40.802	190	63.81	155
20	35.341	159	55.26	333	34.86	63	42.31	234	36.325	171	61.22	144	40.992	258	62.26	131
30	35.500	209	51.93	329	35.49	82	39.97	201	36.496	210	62.66	158	41.250	320	60.95	100
Juni 9	35.709	254	48.64	316	36.31	97	37.96	163	36.706	244	64.24	170	41.570	372	59.95	67
19	35.963	293	45.48	295	37.28	111	36.33	121	36.950	272	65.94	178	41.942	415	59.28	31
29	36.256	323	42.53	267	38.39	121	35.12	75	37.222	293	67.72	182	42.357	448	58.97	6
Juli 9	36.579	346	39.86	232	39.60	128	34.37	26	37.515	307	69.54	180	42.805	470	59.03	42
19	36.925	360	37.54	191	40.88	133	34.11	22	37.822	313	71.34	173	43.275	482	59.45	78
29	37.285	364	35.63	143	42.21	134	34.33	71	38.135	314	73.07	162	43.757	482	60.23	111
Aug. 8	37.649	361	34.20	92	43.55	133	35.04	118	38.449	307	74.69	146	44.239	475	61.34	141
18	38.010	348	33.28	38	44.88	129	36.22	162	38.756	295	76.15	126	44.714	458	62.75	169
28	38.358	327	32.90	17	46.17	123	37.84	203	39.051	279	77.41	103	45.172	435	64.44	193
Sept. 7	38.685	301	33.07	71	47.40	114	39.87	241	39.330	258	78.44	79	45.607	405	66.37	212
17	38.986	268	33.78	122	48.54	104	42.28	274	39.588	235	79.23	54	46.012	371	68.49	229
27	39.254	231	35.00	168	49.58	92	45.02	301	39.823	209	79.77	28	46.383	332	70.78	240
Okt. 7	39.485	190	36.68	207	50.50	77	48.03	324	40.032	183	80.05	5	46.715	291	73.18	248
17	39.675	147	38.75	238	51.27	62	51.27	340	40.215	154	80.10	17	47.006	244	75.66	251
27	39.822	102	41.13	258	51.89	45	54.67	349	40.369	126	79.93	35	47.250	195	78.17	250
Nov. 5*)	5 39.924	56	43.71	268	52.34	26	58.16	349	40.495	96	79.58	50	47.445	143	80.67	244
15	39.980	12	46.39	268	52.60	7	61.65	343	6 40.591	65	79.08	60	6 47.588	88	83.11	232
25	39.992	32	49.07	257	52.67	12	65.08	326	40.656	34	78.48	67	47.676	32	85.43	215
Dez. 5	39.960	74	51.64	235	52.55	32	68.34	300	40.690	3	77.81	70	47.708	26	87.58	194
15	39.886	112	53.99	206	52.23	51	71.34	266	40.693	29	77.11	70	47.682	83	89.52	165
25	39.774	148	56.05	169	51.72	68	74.00	224	40.664	59	76.41	68	47.599	136	91.17	132
35	39.626		57.74		51.04		76.24		40.605		75.73		47.463		92.49	
Mittl. Ort	36.292		63.79		42.06		40.81		37.053		57.88		42.810		61.21	
sec δ, tg δ	1.317		−0.857		5.310		+5.215		1.002		+0.067		1.671		+1.338	

*) Bei Stern 107) und 108) lies Nov. 6.

Tag	109) ρ Persei AR.	Diff.	109) ρ Persei Dekl.	Diff.	110) μ Horologii AR.	Diff.	110) μ Horologii Dekl.	Diff.	111) β Persei AR.	Diff.	111) β Persei Dekl.	Diff.	114) δ Arietis AR.	Diff.	114) δ Arietis Dekl.	Diff.
1930	3h 0m		+38° 34′		3h 1m		−59° 59′		3h 3m		+40° 41′		3h 7m		+19° 27′	
Jan. 0	40.997	109	24.02	57	59.45	32	105.00	149	36.398	112	25.55	67	37.406	76	53.36	11
10	40.888	143	24.59	29	59.13	36	106.49	94	36.286	149	26.22	37	37.330	104	53.25	21
20	40.745	170	24.88	0	58.77	39	107.43	37	36.137	177	26.59	7	37.226	128	53.04	29
30	40.575	188	24.88	29	58.38	40	107.80	21	35.960	197	26.66	24	37.098	146	52.75	38
Feb. 9	40.387	196	24.59	57	57.98	40	107.59	78	35.763	205	26.42	54	36.952	154	52.37	45
19	40.191	194	24.02	81	57.58	39	106.81	131	35.558	202	25.88	81	36.798	154	51.92	49
März 1	39.997	177	23.21	101	57.19	36	105.50	182	35.356	187	25.07	103	36.644	144	51.43	51
11	39.820	150	22.20	117	56.83	32	103.68	227	35.169	159	24.04	121	36.500	123	50.92	50
21	39.670	113	21.03	127	56.51	28	101.41	268	35.010	120	22.83	133	36.377	94	50.42	45
31	39.557	66	19.76	129	56.23	21	98.73	303	34.890	73	21.50	137	36.283	56	49.97	36
Apr. 10	39.491	14	18.47	126	56.02	15	95.70	331	34.817	19	20.13	135	36.227	13	49.61	23
20	39.477	44	17.21	115	55.87	8	92.39	352	34.798	40	18.78	127	36.214	33	49.38	8
30	39.521	102	16.06	100	55.79	1	88.87	365	34.838	100	17.51	112	36.247	83	49.30	11
Mai 10	39.623	159	15.06	79	55.80	8	85.22	371	34.938	159	16.39	91	36.330	131	49.41	31
20	39.782	214	14.27	54	55.88	15	81.51	368	35.097	214	15.48	67	36.461	177	49.72	52
30	39.996	261	13.73	27	56.03	23	77.83	357	35.311	265	14.81	40	36.638	219	50.24	72
Juni 9	40.257	304	13.46	1	56.26	31	74.26	336	35.576	308	14.41	11	36.857	256	50.96	92
19	40.561	337	13.47	30	56.57	36	70.90	309	35.884	343	14.30	19	37.113	285	51.88	110
29	40.898	363	13.77	59	56.93	41	67.81	273	36.227	370	14.49	48	37.398	308	52.98	125
Juli 9	41.261	380	14.36	85	57.34	45	65.08	229	36.597	388	14.97	77	37.706	323	54.23	137
19	41.641	387	15.21	110	57.79	48	62.79	180	36.985	397	15.74	102	38.029	331	55.60	144
29	42.028	388	16.31	131	58.27	49	60.99	124	37.382	397	16.76	125	38.360	332	57.04	148
Aug. 8	42.416	381	17.62	149	58.76	50	59.75	66	37.779	391	18.01	145	38.692	327	58.52	147
18	42.797	367	19.11	163	59.26	48	59.09	5	38.170	377	19.46	162	39.019	315	59.99	144
28	43.164	347	20.74	174	59.74	46	59.04	56	38.547	358	21.08	175	39.334	299	61.43	136
Sept. 7	43.511	324	22.48	181	60.20	42	59.60	116	38.905	335	22.83	184	39.633	280	62.79	126
17	43.835	296	24.29	186	60.62	37	60.76	171	39.240	307	24.67	189	39.913	257	64.05	113
27	44.131	267	26.15	186	60.99	32	62.47	219	39.547	277	26.56	193	40.170	232	65.18	100
Okt. 7	44.398	235	28.01	184	61.31	25	64.66	260	39.824	244	28.49	193	40.402	206	66.18	85
17	44.633	200	29.85	180	61.56	18	67.26	290	40.068	208	30.42	189	40.608	177	67.03	72
27	44.833	163	31.65	173	61.74	11	70.16	310	40.276	171	32.31	184	40.785	147	67.75	58
Nov. 6	6 44.996	125	33.38	163	7 61.85	3	73.26	317	7 40.447	131	34.15	174	8 40.932	116	68.33	45
15	45.121	86	35.01	151	61.88	4	76.43	311	40.578	89	35.89	163	41.048	84	68.78	34
25	45.207	43	36.52	135	61.84	12	79.54	294	40.667	47	37.52	148	41.132	50	69.12	23
Dez. 5	45.250	0	37.87	118	61.72	18	82.48	265	40.714	2	39.00	130	41.182	15	69.35	13
15	45.250	42	39.05	96	61.54	24	85.13	227	40.716	43	40.30	108	41.197	19	69.48	3
25	45.208	82	40.01	71	61.30	30	87.40	181	40.673	85	41.38	82	41.178	53	69.51	7
35	45.126		40.72		61.00		89.21		40.588		42.20		41.125		69.44	
Mittl. Ort	40.995		13.01		57.58		91.97		36.376		14.04		37.319		47.25	
sec δ, tg δ	1.279		+0.797		2.000		−1.733		1.319		+0.860		1.061		+0.353	

Scheinbare Sternörter 1930

Tag	117) 12 Eridani AR.		Dekl.		115) 48 H. Cephei AR.		Dekl.	
1930	3h 9m		−29° 15′		3h 11m		+77° 28′	
Jan. 0	6.378	118	50.89	142	23.17	62	66.28	204
10	6.260	146	52.31	106	22.55	74	68.32	153
20	6.114	167	53.37	67	21.81	83	69.85	97
30	5.947	181	54.04	26	20.98	89	70.82	37
Feb. 9	5.766	188	54.30	15	20.09	90	71.19	22
19	5.578	187	54.15	56	19.19	88	70.97	80
März 1	5.391	175	53.59	96	18.31	82	70.17	133
11	5.216	156	52.63	134	17.49	71	68.84	180
21	5.060	127	51.29	170	16.78	58	67.04	219
31	4.933	91	49.59	202	16.20	42	64.85	248
Apr. 10	4.842	48	47.57	232	15.78	24	62.37	266
20	4.794	1	45.25	256	15.54	5	59.71	274
30	4.793	47	42.69	276	15.49	14	56.97	272
Mai 10	4.840	97	39.93	291	15.63	33	54.25	259
20	4.937	146	37.02	299	15.96	52	51.66	237
30	5.083	190	34.03	301	16.48	68	49.29	209
Juni 9	5.273	231	31.02	295	17.16	82	47.20	173
19	5.504	266	28.07	282	17.98	95	45.47	133
29	5.770	294	25.25	263	18.93	104	44.14	89
Juli 9	6.064	314	22.62	235	19.97	112	43.25	43
19	6.378	326	20.27	202	21.09	116	42.82	4
29	6.704	332	18.25	163	22.25	118	42.86	51
Aug. 8	7.036	329	16.62	119	23.43	119	43.37	98
18	7.365	320	15.43	72	24.62	116	44.35	141
28	7.685	304	14.71	23	25.78	111	45.76	183
Sept. 7	7.989	282	14.48	27	26.89	105	47.59	221
17	8.271	256	14.75	75	27.94	97	49.80	254
27	8.527	226	15.50	119	28.91	86	52.34	284
Okt. 7	8.753	193	16.69	157	29.77	75	55.18	308
17	8.946	159	18.26	189	30.52	62	58.26	326
27	9.105	121	20.15	212	31.14	47	61.52	336
Nov. 6	9.226	84	22.27	227	31.61	31	64.88	341
16	[8] 9.310	46	24.54	231	[9] 31.92	15	68.29	336
26	9.356	8	26.85	227	32.07	3	71.65	324
Dez. 6	9.364	29	29.12	213	32.04	20	74.89	301
16	9.335	65	31.25	192	31.84	36	77.90	271
26	9.270	99	33.17	164	31.48	52	80.61	231
36	9.171		34.81		30.96		82.92	
Mittl. Ort	5.757		43.96		22.09		48.90	
sec δ, tg δ	1.146		−0.560		4.613		+4.503	

Tag	120) α Persei AR.		Dekl.		121) o Tauri AR.		Dekl.	
1930	3h 19m		+49° 36′		3h 21m		+8° 47′	
Jan. 0	19.046	131	61.80	112	2.817	65	4.44	49
10	18.915	176	62.92	78	2.752	94	3.95	47
20	18.739	214	63.70	40	2.658	119	3.48	45
30	18.525	240	64.10	2	2.539	138	3.03	40
Feb. 9	18.285	253	64.12	36	2.401	149	2.63	35
19	18.032	252	63.76	72	2.252	150	2.28	28
März 1	17.780	237	63.04	105	2.102	144	2.00	20
11	17.543	208	61.99	132	1.958	126	1.80	10
21	17.335	165	60.67	153	1.832	100	1.70	3
31	17.170	112	59.14	166	1.732	66	1.73	18
Apr. 10	17.058	50	57.48	172	1.666	27	1.91	34
20	17.008	16	55.76	170	1.639	17	2.25	53
30	17.024	86	54.06	160	1.656	63	2.78	71
Mai 10	17.110	154	52.46	144	1.719	110	3.49	91
20	17.264	220	51.02	122	1.829	154	4.40	109
30	17.484	279	49.80	96	1.983	196	5.49	125
Juni 9	17.763	332	48.84	67	2.179	232	6.74	140
19	18.095	375	48.17	35	2.411	262	8.14	151
29	18.470	409	47.82	1	2.673	286	9.65	157
Juli 9	18.879	434	47.81	32	2.959	303	11.22	160
19	19.313	448	48.13	62	3.262	313	12.82	158
29	19.761	453	48.75	92	3.575	316	14.40	152
Aug. 8	20.214	450	49.67	120	3.891	313	15.92	141
18	20.664	439	50.87	146	4.204	304	17.33	127
28	21.103	421	52.33	166	4.508	291	18.60	109
Sept. 7	21.524	398	53.99	185	4.799	274	19.69	89
17	21.922	369	55.84	200	5.073	253	20.58	67
27	22.291	336	57.84	211	5.326	230	21.25	46
Okt. 7	22.627	300	59.95	218	5.556	206	21.71	25
17	22.927	260	62.13	222	5.762	180	21.96	6
27	23.187	216	64.35	223	5.942	152	22.02	11
Nov. 6	23.403	170	66.58	220	6.094	121	21.91	25
16	[11] 23.573	119	68.78	211	[11] 6.215	90	21.66	36
26	23.692	66	70.89	198	6.305	58	21.30	43
Dez. 6	23.758	11	72.87	181	6.363	25	20.87	48
16	23.769	43	74.68	158	6.388	10	20.39	50
26	23.726	97	76.26	130	6.378	43	19.89	51
36	23.629		77.56		6.335		19.38	
Mittl. Ort	18.875		48.51		2.609		0.98	
sec δ, tg δ	1.543		+1.176		1.012		+0.154	

Tag	122) 2 H. Camelop. AR.		Dekl.		125) *f* Tauri AR.		Dekl.	
1930	3h 23m		+59° 41′		3h 26m		+12° 41′	
Jan. 0	23.387	189	68.39	154	60.519	62	56.92	34
10	23.198	248	69.93	114	60.457	92	56.58	36
20	22.950	296	71.07	69	60.365	118	56.22	37
30	22.654	329	71.76	23	60.247	139	55.85	36
Feb. 9	22.325	345	71.99	25	60.108	151	55.49	36
19	21.980	343	71.74	70	59.957	154	55.13	33
März 1	21.637	324	71.04	111	59.803	147	54.80	29
11	21.313	286	69.93	148	59.656	130	54.51	22
21	21.027	232	68.45	176	59.526	105	54.29	12
31	20.795	165	66.69	197	59.421	72	54.17	1
Apr. 10	20.630	87	64.72	210	59.349	31	54.16	13
20	20.543	2	62.62	213	59.318	13	54.29	29
30	20.541	84	60.49	207	59.331	60	54.58	47
Mai 10	20.625	171	58.42	194	59.391	107	55.05	66
20	20.796	253	56.48	174	59.498	153	55.71	85
30	21.049	329	54.74	147	59.651	194	56.56	102
Juni 9	21.378	396	53.27	116	59.845	232	57.58	118
19	21.774	452	52.11	81	60.077	263	58.76	131
29	22.226	496	51.30	45	60.340	288	60.07	140
Juli 9	22.722	529	50.85	7	60.628	305	61.47	146
19	23.251	550	50.78	32	60.933	316	62.93	148
29	23.801	560	51.10	68	61.249	319	64.41	146
Aug. 8	24.361	558	51.78	103	61.568	318	65.87	138
18	24.919	547	52.81	137	61.886	310	67.25	128
28	25.466	527	54.18	167	62.196	297	68.53	114
Sept. 7	25.993	500	55.85	193	62.493	281	69.67	97
17	26.493	465	57.78	217	62.774	261	70.64	80
27	26.958	424	59.95	235	63.035	239	71.44	61
Okt. 7	27.382	377	62.30	251	63.274	215	72.05	43
17	27.759	326	64.81	262	63.489	189	72.48	26
27	28.085	269	67.43	267	63.678	161	72.74	11
Nov. 6	28.354	206	70.10	268	63.839	131	72.85	2
15*)	28.560	139	72.78	262	63.970	100	72.83	13
25	28.699	70	75.40	251	64.070	66	72.70	21
Dez. 5	28.769	3	77.91	232	64.136	31	72.49	27
15	28.766	76	80.23	207	64.167	3	72.22	31
25	28.690	145	82.30	176	64.164	39	71.91	34
35	28.545		84.06		64.125		71.57	
Mittl. Ort	23.047		53.40		60.306		52.30	
sec δ, tg δ	1.982		+1.711		1.025		+0.225	

Tag	127) ε Eridani[1] AR.		Dekl.		131) δ Persei AR.		Dekl.	
1930	3h 29m		−9° 41′		3h 37m		+47° 33′	
Jan. 0	38.282	75	40.76	111	56.209	103	67.55	116
10	38.207	105	41.87	91	56.106	151	68.71	85
20	38.102	129	42.78	70	55.955	192	69.56	52
30	37.973	147	43.48	45	55.763	222	70.08	17
Feb. 9	37.826	157	43.93	21	55.541	239	70.25	19
19	37.669	161	44.14	5	55.302	245	70.06	53
März 1	37.508	154	44.09	30	55.057	235	69.53	85
11	37.354	137	43.79	57	54.822	212	68.68	112
21	37.217	114	43.22	82	54.610	174	67.56	134
31	37.103	81	42.40	108	54.436	126	66.22	149
Apr. 10	37.022	43	41.32	132	54.310	69	64.73	156
20	36.979	0	40.00	156	54.241	6	63.17	157
30	36.979	45	38.44	176	54.235	60	61.60	151
Mai 10	37.024	91	36.68	194	54.295	127	60.09	138
20	37.115	135	34.74	208	54.422	190	58.71	120
30	37.250	177	32.66	218	54.612	250	57.51	97
Juni 9	37.427	214	30.48	223	54.862	303	56.54	71
19	37.641	246	28.25	223	55.165	348	55.83	42
29	37.887	271	26.02	218	55.513	383	55.41	12
Juli 9	38.158	290	23.84	205	55.896	411	55.29	17
19	38.448	302	21.79	187	56.307	429	55.46	47
29	38.750	306	19.92	164	56.736	437	55.93	74
Aug. 8	39.056	306	18.28	136	57.173	438	56.67	100
18	39.362	298	16.92	104	57.611	431	57.67	123
28	39.660	286	15.88	69	58.042	418	58.90	144
Sept. 7	39.946	269	15.19	33	58.460	399	60.34	161
17	40.215	249	14.86	4	58.859	374	61.95	175
27	40.464	226	14.90	38	59.233	346	63.70	186
Okt. 7	40.690	200	15.28	71	59.579	315	65.56	195
17	40.890	172	15.99	99	59.894	277	67.51	201
27	41.062	143	16.98	121	60.171	238	69.52	202
Nov. 6	41.205	112	18.19	137	60.409	194	71.54	201
15*)	41.317	80	19.56	147	60.603	146	73.55	196
25	41.397	47	21.03	149	60.749	95	75.51	187
Dez. 5	41.444	13	22.52	147	60.844	41	77.38	173
15	41.457	22	23.99	137	60.885	14	79.11	154
25	41.435	54	25.36	123	60.871	68	80.65	131
35	41.381		26.59		60.803		81.96	
Mittl. Ort	37.890		39.51		55.916		54.90	
sec δ, tg δ	1.014		−0.171		1.482		+1.094	

[1] Die jährliche Parallaxe (0.32) ist bereits berücksichtigt.

*) Bei Stern 131) lies Nov. 16

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Tag	134) ν Persei AR.	Δ	Dekl.	Δ	138) 5 H. Camelop. AR.	Δ	Dekl.	Δ	141) β Reticuli AR.	Δ	Dekl.	Δ	139) η Tauri AR.	Δ	Dekl.	Δ
1930	3h 40m		+42° 21′		3h 42m		+71° 7′		3h 43m		−65° 1′		3h 43m		+23° 53′	
Jan. 0	26.133	84	43.54	94	57.27	31	23.99	212	21.66	37	47.71	198	19.417	55	31.42	14
10	26.049	129	44.48	69	56.96	41	26.11	170	21.29	42	49.69	146	19.362	91	31.56	4
20	25.920	167	45.17	41	56.55	49	27.81	120	20.87	47	51.15	90	19.271	122	31.60	8
30	25.753	196	45.58	10	56.06	54	29.01	67	20.40	50	52.05	32	19.149	147	31.52	19
Feb. 9	25.557	214	45.68	21	55.52	57	29.68	12	19.90	51	52.37	25	19.002	162	31.33	29
19	25.343	219	45.47	50	54.95	58	29.80	42	19.39	51	52.12	82	18.840	169	31.04	39
März 1	25.124	212	44.97	76	54.37	56	29.38	94	18.88	50	51.30	136	18.671	164	30.65	46
11	24.912	190	44.21	99	53.81	51	28.44	141	18.38	46	49.94	186	18.507	149	30.19	52
21	24.722	158	43.22	117	53.30	43	27.03	181	17.92	42	48.08	231	18.358	124	29.67	53
31	24.564	114	42.05	128	52.87	33	25.22	212	17.50	35	45.77	271	18.234	89	29.14	51
Apr. 10	24.450	62	40.77	133	52.54	22	23.10	236	17.15	29	43.06	306	18.145	47	28.63	44
20	24.388	4	39.44	132	52.32	9	20.74	248	16.86	20	40.00	333	18.098	0	28.19	35
30	24.384	56	38.12	124	52.23	4	18.26	251	16.66	11	36.67	354	18.098	49	27.84	21
Mai 10	24.440	118	36.88	110	52.27	17	15.75	246	16.55	3	33.13	366	18.147	99	27.63	4
20	24.558	177	35.78	93	52.44	30	13.29	230	16.52	7	29.47	370	18.246	148	27.59	13
30	24.735	231	34.85	70	52.74	41	10.99	209	16.59	16	25.77	366	18.394	194	27.72	32
Juni 9	24.966	280	34.15	46	53.15	52	8.90	179	16.75	24	22.11	353	18.588	234	28.04	51
19	25.246	322	33.69	20	53.67	62	7.11	146	16.99	33	18.58	331	18.822	269	28.55	69
29	25.568	356	33.49	7	54.29	69	5.65	108	17.32	39	15.27	301	19.091	297	29.24	85
Juli 9	25.924	380	33.56	34	54.98	75	4.57	68	17.71	46	12.26	262	19.388	317	30.09	99
19	26.304	397	33.90	59	55.73	80	3.89	26	18.17	50	9.64	216	19.705	331	31.08	110
29	26.701	405	34.49	83	56.53	82	3.63	17	18.67	54	7.48	163	20.036	337	32.18	117
Aug. 8	27.106	406	35.32	104	57.35	83	3.80	59	19.21	56	5.85	106	20.373	338	33.35	121
18	27.512	399	36.36	122	58.18	83	4.39	100	19.77	57	4.79	45	20.711	333	34.56	122
28	27.911	387	37.58	138	59.01	82	5.39	138	20.34	55	4.34	18	21.044	322	35.78	120
Sept. 7	28.298	370	38.96	151	59.83	78	6.77	175	20.89	52	4.52	81	21.366	307	36.98	115
17	28.668	348	40.47	160	60.61	73	8.52	207	21.41	48	5.33	141	21.673	290	38.13	107
27	29.016	322	42.07	167	61.34	67	10.59	237	21.89	43	6.74	196	21.963	268	39.20	99
Okt. 7	29.338	293	43.74	173	62.01	61	12.96	263	22.32	36	8.70	244	22.231	245	40.19	90
17	29.631	261	45.47	175	62.62	53	15.59	282	22.68	29	11.14	283	22.476	219	41.09	80
27	29.892	225	47.22	174	63.15	44	18.41	297	22.97	19	13.97	312	22.695	191	41.89	70
Nov. 6	30.117	185	48.96	172	63.59	34	21.38	306	23.16	11	17.09	327	22.886	159	42.59	61
16	30.302	142	50.68	166	63.93	24	24.44	308	23.27	2	20.36	331	23.045	126	43.20	53
25	[16] 30.444	96	52.34	156	[17] 64.17	12	27.52	301	[17] 23.29	8	23.67	322	[17] 23.171	89	43.73	45
Dez. 5	30.540	47	53.90	145	64.29	0	30.53	288	23.21	17	26.89	301	23.260	51	44.18	36
15	30.587	2	55.35	128	64.29	12	33.41	265	23.04	25	29.90	269	23.311	12	44.54	28
25	30.585	53	56.63	108	64.17	24	36.06	234	22.79	32	32.59	229	23.323	28	44.82	19
35	30.532		57.71		63.93		38.40		22.47		34.88		23.295		45.01	
Mittl. Ort	25.863		31.93		56.21		8.03		18.92		37.66		19.165		23.84	
sec δ, tg δ	1.353		+0.912		3.090		+2.924		2.369		−2.147		1.094		+0.443	

Tag	140) τ⁶ Eridani AR.		140) τ⁶ Eridani Dekl.		143) g Eridani AR.		143) g Eridani Dekl.		146) γ Hydri AR.		146) γ Hydri Dekl.		144) ζ Persei AR.		144) ζ Persei Dekl.	
1930	3h 43m		−23° 26′		3h 46m		−36° 24′		3h 48m		−74° 26′		3h 49m		+31° 40′	
Jan. 0	50.766 s	86	83.24″	160	51.028 s	121	47.15″	187	23.03 s	64	84.58″	195	43.905 s	56	47.06″	51
10	50.680	119	84.84	129	50.907	156	49.02	149	22.39	74	86.53	142	43.849	97	47.57	35
20	50.561	146	86.13	96	50.751	187	50.51	105	21.65	80	87.95	86	43.752	132	47.92	17
30	50.415	167	87.09	60	50.564	209	51.56	60	20.85	84	88.81	27	43.620	160	48.09	2
Feb. 9	50.248	181	87.69	22	50.355	223	52.16	13	20.01	87	89.08	31	43.460	177	48.07	22
19	50.067	186	87.91	15	50.132	227	52.29	33	19.14	86	88.77	87	43.283	185	47.85	39
März 1	49.881	181	87.76	52	49.905	222	51.96	79	18.28	84	87.90	140	43.098	181	47.46	55
11	49.700	167	87.24	89	49.683	207	51.17	123	17.44	78	86.50	191	42.917	166	46.91	68
21	49.533	143	86.35	123	49.476	181	49.94	164	16.66	71	84.59	236	42.751	139	46.23	78
31	49.390	113	85.12	156	49.295	147	48.30	201	15.95	62	82.23	275	42.612	102	45.45	82
Apr. 10	49.277	75	83.56	186	49.148	106	46.29	235	15.33	51	79.48	308	42.510	58	44.63	81
20	49.202	31	81.70	213	49.042	58	43.94	264	14.82	39	76.40	335	42.452	8	43.82	76
30	49.171	16	79.57	236	48.984	8	41.30	288	14.43	27	73.05	354	42.444	44	43.06	66
Mai 10	49.187	63	77.21	254	48.976	45	38.42	305	14.16	13	69.51	366	42.488	99	42.40	51
20	49.250	110	74.67	267	49.021	97	35.37	316	14.03	2	65.85	369	42.587	151	41.89	35
30	49.360	155	72.00	274	49.118	148	32.21	320	14.05	16	62.16	363	42.738	199	41.54	16
Juni 9	49.515	197	69.26	276	49.266	194	29.01	317	14.21	29	58.53	350	42.937	243	41.38	5
19	49.712	232	66.50	269	49.460	237	25.84	305	14.50	42	55.03	328	43.180	281	41.43	26
29	49.944	263	63.81	256	49.697	272	22.79	285	14.92	53	51.75	296	43.461	311	41.69	47
Juli 9	50.207	287	61.25	235	49.969	302	19.94	258	15.45	63	48.79	257	43.772	334	42.16	65
19	50.494	303	58.90	209	50.271	323	17.36	223	16.08	72	46.22	210	44.106	350	42.81	82
29	50.797	314	56.81	176	50.594	336	15.13	182	16.80	79	44.12	158	44.456	359	43.63	96
Aug. 8	51.111	316	55.05	138	50.930	342	13.31	135	17.59	82	42.54	100	44.815	360	44.59	108
18	51.427	313	53.67	95	51.272	341	11.96	84	18.41	83	41.54	38	45.175	355	45.67	116
28	51.740	303	52.72	49	51.613	332	11.12	30	19.24	82	41.16	24	45.530	346	46.83	122
Sept. 7	52.043	289	52.23	2	51.945	315	10.82	25	20.06	79	41.40	87	45.876	331	48.05	124
17	52.332	269	52.21	45	52.260	295	11.07	78	20.85	72	42.27	147	46.207	313	49.29	125
27	52.601	246	52.66	89	52.555	268	11.85	130	21.57	64	43.74	201	46.520	293	50.54	123
Okt. 7	52.847	219	53.55	130	52.823	236	13.15	175	22.21	53	45.75	249	46.813	268	51.77	120
17	53.066	190	54.85	164	53.059	201	14.90	213	22.74	41	48.24	287	47.081	240	52.97	116
27	53.256	158	56.49	191	53.260	162	17.03	243	23.15	27	51.11	315	47.321	211	54.13	112
Nov. 6	53.414	124	58.40	210	53.422	121	19.46	263	23.42	12	54.26	330	47.532	178	55.25	106
16	53.538	88	60.50	221	[18] 53.543	79	22.09	273	[18] 23.54	3	57.56	333	[19] 47.710	141	56.31	99
25	[17] 53.626	50	62.71	222	53.622	34	24.82	272	23.51	18	60.89	323	47.851	101	57.30	92
Dez. 5	53.676	12	64.93	215	53.656	10	27.54	260	23.33	33	64.12	301	47.952	60	58.22	82
15	53.688	26	67.08	200	53.646	55	30.14	240	23.00	46	67.13	268	48.012	16	59.04	72
25	53.662	63	69.08	178	53.591	96	32.54	210	22.54	58	69.81	226	48.028	28	59.76	58
35	53.599		70.86		53.495		34.64		21.96		72.07		48.000		60.34	
Mittl. Ort	50.101		79.63		50.056		41.18		18.20		74.41		43.621		37.74	
sec δ, tg δ	1.090		−0.434		1.243		−0.738		3.731		−3.595		1.175		+0.617	

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Tag	145) 9 H. Camelop. AR.		Dekl.		147) ε Persei AR.		Dekl.		148) ξ Persei AR.		Dekl.		149) γ Eridani AR.		Dekl.	
1930	$3^h\,51^m$		$+60°\,54'$		$3^h\,53^m$		$+39°\,48'$		$3^h\,54^m$		$+35°\,35'$		$3^h\,54^m$		$-13°\,41'$	
Jan. 0	9.83	16	34.85	180	9.342	66	43.97	90	25.391	58	38.16	70	46.295	61	84.89	137
10	9.67	23	36.65	144	9.276	111	44.87	67	25.333	100	38.86	52	46.234	95	86.26	114
20	9.44	28	38.09	102	9.165	151	45.54	43	25.233	138	39.38	31	46.139	124	87.40	89
30	9.16	33	39.11	56	9.014	182	45.97	15	25.095	168	39.69	9	46.015	147	88.29	62
Feb. 9	8.83	36	39.67	10	8.832	202	46.12	12	24.927	188	39.78	15	45.868	162	88.91	33
19	8.47	36	39.77	37	8.630	210	46.00	38	24.739	196	39.63	37	45.706	170	89.24	4
März 1	8.11	36	39.40	81	8.420	207	45.62	63	24.543	193	39.26	57	45.536	168	89.28	26
11	7.75	32	38.59	121	8.213	189	44.99	84	24.350	177	38.69	75	45.368	156	89.02	56
21	7.43	28	37.38	155	8.024	159	44.15	101	24.173	150	37.94	87	45.212	135	88.46	85
31	7.15	21	35.83	182	7.865	120	43.14	112	24.023	112	37.07	95	45.077	106	87.61	113
Apr. 10	6.94	14	34.01	201	7.745	71	42.02	118	23.911	67	36.12	99	44.971	70	86.48	139
20	6.80	5	32.00	211	7.674	17	40.84	117	23.844	15	35.13	95	44.901	29	85.09	164
30	6.75	3	29.89	212	7.657	42	39.67	110	23.829	40	34.18	88	44.872	15	83.45	187
Mai 10	6.78	13	27.77	205	7.699	100	38.57	99	23.869	96	33.30	75	44.887	62	81.58	206
20	6.91	21	25.72	191	7.799	158	37.58	83	23.965	151	32.55	59	44.949	107	79.52	221
30	7.12	29	23.81	170	7.957	212	36.75	63	24.116	201	31.96	40	45.056	150	77.31	231
Juni 9	7.41	37	22.11	144	8.169	260	36.12	41	24.317	248	31.56	19	45.206	190	75.00	237
19	7.78	43	20.67	113	8.429	301	35.71	17	24.565	287	31.37	3	45.396	224	72.63	236
29	8.21	49	19.54	80	8.730	336	35.54	7	24.852	320	31.40	25	45.620	254	70.27	230
Juli 9	8.70	52	18.74	45	9.066	362	35.61	31	25.172	344	31.65	46	45.874	277	67.97	216
19	9.22	55	18.29	9	9.428	380	35.92	54	25.516	362	32.11	66	46.151	293	65.81	198
29	9.77	58	18.20	28	9.808	390	36.46	74	25.878	372	32.77	83	46.444	303	63.83	172
Aug. 8	10.35	58	18.48	63	10.198	393	37.20	93	26.250	374	33.60	98	46.747	306	62.11	142
18	10.93	58	19.11	97	10.591	389	38.13	109	26.624	371	34.58	110	47.053	304	60.69	107
28	11.51	57	20.08	129	10.980	380	39.22	123	26.995	361	35.68	119	47.357	296	59.62	69
Sept. 7	12.08	54	21.37	158	11.360	365	40.45	133	27.356	348	36.87	126	47.653	285	58.93	28
17	12.62	52	22.95	184	11.725	346	41.78	142	27.704	329	38.13	131	47.938	267	58.65	11
27	13.14	48	24.79	207	12.071	323	43.20	148	28.033	309	39.44	133	48.205	248	58.76	50
Okt. 7	13.62	44	26.86	227	12.394	297	44.68	152	28.342	283	40.77	133	48.453	225	59.26	87
17	14.06	39	29.13	243	12.691	268	46.20	153	28.625	256	42.10	133	48.678	199	60.13	119
27	14.45	33	31.56	254	12.959	233	47.73	154	28.881	225	43.43	130	48.877	171	61.32	144
Nov. 6	14.78	27	34.10	260	13.192	197	49.27	151	29.106	190	44.73	127	49.048	140	62.76	163
16	15.05	20	36.70	261	13.389	156	50.78	147	29.296	151	46.00	121	49.188	107	64.39	174
25	15.25	13	39.31	255	13.545	112	52.25	140	29.447	110	47.21	115	49.295	73	66.13	179
Dez. 5	15.38	5	41.86	244	13.657	64	53.65	130	29.557	66	48.36	106	49.368	36	67.92	176
15	15.43	3	44.30	224	13.721	15	54.95	117	29.623	19	49.42	94	49.404	1	69.68	166
25	15.40	10	46.54	198	13.736	34	56.12	101	29.642	27	50.36	79	49.403	38	71.34	151
35	15.30		48.52		13.702		57.13		29.615		51.15		49.365		72.85	
Mittl. Ort	9.18		20.35		9.009		33.03		25.071		28.06		45.739		83.95	
sec δ, tg δ	2.057		+1.797		1.302		+0.833		1.230		+0.716		1.029		−0.244	

Tag	150) λ Tauri AR.		150) λ Tauri Dekl.		151) ν Tauri AR.		151) ν Tauri Dekl.		152) c Persei AR.		152) c Persei Dekl.		154) o¹ Eridani AR.		154) o¹ Eridani Dekl.	
1930	$3^h\ 56^m$		+12° 17′		$3^h\ 59^m$		+5° 47′		$4^h\ 3^m$		+47° 31′		$4^h\ 8^m$		−7° 0′	
Jan. 0	48.293 s	41	42.65″	36	26.219 s	41	49.94″	64	34.807 s	75	50.27″	130	27.367 s	45	67.33″	119
10	48.252	77	42.29	35	26.178	76	49.30	58	34.732	127	51.57	103	27.322	79	68.52	101
20	48.175	108	41.94	33	26.102	106	48.72	50	34.605	173	52.60	74	27.243	110	69.53	82
30	48.067	134	41.61	32	25.996	132	48.22	42	34.432	211	53.34	40	27.133	137	70.35	61
Feb. 9	47.933	151	41.29	30	25.864	149	47.80	32	34.221	236	53.74	6	26.996	154	70.96	38
19	47.782	159	40.99	27	25.715	158	47.48	22	33.985	247	53.80	28	26.842	164	71.34	15
März 1	47.623	157	40.72	22	25.557	156	47.26	11	33.738	245	53.52	60	26.678	165	71.49	10
11	47.466	146	40.50	16	25.401	146	47.15	1	33.493	227	52.92	90	26.513	155	71.39	33
21	47.320	124	40.34	9	25.255	125	47.16	15	33.266	196	52.02	115	26.358	136	71.06	57
31	47.196	94	40.25	2	25.130	96	47.31	30	33.070	152	50.87	133	26.222	109	70.49	81
Apr. 10	47.102	57	40.27	15	25.034	60	47.61	46	32.918	98	49.54	145	26.113	75	69.68	105
20	47.045	14	40.42	29	24.974	18	48.07	64	32.820	38	48.09	151	26.038	34	68.63	128
30	47.031	32	40.71	44	24.956	26	48.71	81	32.782	27	46.58	150	26.004	9	67.35	149
Mai 10	47.063	79	41.15	61	24.982	72	49.52	98	32.809	93	45.08	142	26.013	54	65.86	167
20	47.142	124	41.76	78	25.054	117	50.50	115	32.902	157	43.66	128	26.067	99	64.19	183
30	47.266	168	42.54	94	25.171	159	51.65	130	33.059	219	42.38	110	26.166	142	62.36	196
Juni 9	47.434	208	43.48	108	25.330	199	52.95	141	33.278	275	41.28	88	26.308	181	60.40	205
19	47.642	241	44.56	120	25.529	233	54.36	151	33.553	323	40.40	64	26.489	216	58.35	207
29	47.883	269	45.76	128	25.762	260	55.87	155	33.876	363	39.76	37	26.705	246	56.28	205
Juli 9	48.152	291	47.04	134	26.022	282	57.42	156	34.239	395	39.39	9	26.951	269	54.23	197
19	48.443	305	48.38	135	26.304	297	58.98	152	34.634	417	39.30	18	27.220	286	52.26	184
29	48.748	314	49.73	131	26.601	306	60.50	143	35.051	432	39.48	44	27.506	298	50.42	164
Aug. 8	49.062	316	51.04	125	26.907	309	61.93	130	35.483	438	39.92	69	27.804	302	48.78	140
18	49.378	314	52.29	114	27.216	307	63.23	113	35.921	437	40.61	91	28.106	302	47.38	111
28	49.692	305	53.43	101	27.523	300	64.36	93	36.358	430	41.52	113	28.408	296	46.27	79
Sept. 7	49.997	294	54.44	84	27.823	288	65.29	70	36.788	415	42.65	131	28.704	286	45.48	44
17	50.291	278	55.28	66	28.111	273	65.99	46	37.203	396	43.96	146	28.990	273	45.04	9
27	50.569	260	55.94	47	28.384	255	66.45	22	37.599	373	45.42	160	29.263	255	44.95	25
Okt. 7	50.829	239	56.41	29	28.639	234	66.67	1	37.972	344	47.02	171	29.518	235	45.20	58
17	51.068	215	56.70	13	28.873	212	66.66	22	38.316	312	48.73	180	29.753	212	45.78	87
27	51.283	190	56.83	2	29.085	186	66.44	40	38.628	274	50.53	185	29.965	186	46.65	111
Nov. 6	51.473	161	56.81	15	29.271	157	66.04	54	38.902	232	52.38	188	30.151	157	47.76	130
16	51.634	129	56.66	24	29.428	127	65.50	64	39.134	185	54.26	187	30.308	125	49.06	142
26	51.763	96	56.42	30	29.555	93	64.86	71	39.319	134	56.13	183	30.433	92	50.48	147
Dez. 6	51.859	59	56.12	34	29.648	58	64.15	73	39.453	79	57.96	175	30.525	55	51.95	147
16	51.918	21	55.78	37	29.706	21	63.42	73	39.532	21	59.71	161	30.580	18	53.42	141
26	51.939	15	55.41	37	29.727	17	62.69	69	39.553	36	61.32	142	30.598	19	54.83	129
36	51.924		55.04		29.710		62.00		39.517		62.74		30.579		56.12	
Mittl. Ort	47.947		37.62		25.829		46.34		34.338		38.11		26.839		68.41	
sec δ, tg δ	1.023		+0.218		1.005		+0.101		1.481		+1.092		1.008		−0.123	

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Tag	155) α Horologii				156) α Reticuli				160) υ^4 Eridani				162) δ Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	$4^h\ 11^m$		$-42°\ 27'$		$4^h\ 13^m$		$-62°\ 38'$		$4^h\ 15^m$		$-33°\ 57'$		$4^h\ 18^m$		$+17°\ 22'$	
Jan. 0	42.050	127	63.92	221	33.70	29	62.47	235	15.618	92	69.99	206	54.129	24	53.19	12
10	41.923	170	66.13	180	33.41	35	64.82	187	15.526	132	72.05	172	54.105	64	53.07	14
20	41.753	207	67.93	135	33.06	41	66.69	136	15.394	166	73.77	132	54.041	100	52.93	16
30	41.546	236	69.28	87	32.65	45	68.05	80	15.228	194	75.09	89	53.941	129	52.77	18
Feb. 9	41.310	255	70.15	37	32.20	47	68.85	23	15.034	214	75.98	43	53.812	152	52.59	21
19	41.055	264	70.52	13	31.73	48	69.08	33	14.820	224	76.41	2	53.660	164	52.38	23
März 1	40.791	263	70.39	63	31.25	47	68.75	88	14.596	225	76.39	46	53.496	166	52.15	23
11	40.528	250	69.76	110	30.78	46	67.87	141	14.371	214	75.93	91	53.330	158	51.92	24
21	40.278	227	68.66	155	30.32	42	66.46	190	14.157	193	75.02	132	53.172	138	51.68	21
31	40.051	195	67.11	196	29.90	37	64.56	233	13.964	164	73.70	171	53.034	111	51.47	17
Apr. 10	39.856	153	65.15	234	29.53	31	62.23	272	13.800	127	71.99	206	52.923	74	51.30	9
20	39.703	105	62.81	267	29.22	24	59.51	306	13.673	83	69.93	238	52.849	32	51.21	1
30	39.598	53	60.14	293	28.98	16	56.45	332	13.590	35	67.55	264	52.817	13	51.22	13
Mai 10	39.545	3	57.21	313	28.82	8	53.13	351	13.555	15	64.91	286	52.830	61	51.35	27
20	39.548	59	54.08	328	28.74	1	49.62	361	13.570	66	62.05	301	52.891	108	51.62	41
30	39.607	114	50.80	333	28.75	9	46.01	364	13.636	116	59.04	309	52.999	154	52.03	56
Juni 9	39.721	166	47.47	332	28.84	17	42.37	358	13.752	163	55.95	310	53.153	194	52.59	71
19	39.887	215	44.15	321	29.01	25	38.79	343	13.915	207	52.85	303	53.347	231	53.30	83
29	40.102	258	40.94	303	29.26	33	35.36	319	14.122	244	49.82	288	53.578	262	54.13	95
Juli 9	40.360	293	37.91	276	29.59	38	32.17	286	14.366	276	46.94	265	53.840	286	55.08	102
19	40.653	322	35.15	241	29.97	43	29.31	245	14.642	300	44.29	236	54.126	304	56.10	107
29	40.975	343	32.74	199	30.40	48	26.86	197	14.942	318	41.93	198	54.430	316	57.17	108
Aug. 8	41.318	356	30.75	151	30.88	51	24.89	142	15.260	329	39.95	154	54.746	321	58.25	107
18	41.674	360	29.24	97	31.39	52	23.47	82	15.589	332	38.41	106	55.067	322	59.32	100
28	42.034	357	28.27	40	31.91	51	22.65	20	15.921	329	37.35	53	55.389	317	60.32	92
Sept. 7	42.391	346	27.87	18	32.42	51	22.45	44	16.250	320	36.82	1	55.706	309	61.24	81
17	42.737	327	28.05	76	32.93	48	22.89	106	16.570	303	36.83	55	56.015	296	62.05	68
27	43.064	303	28.81	131	33.41	43	23.95	166	16.873	283	37.38	108	56.311	281	62.73	54
Okt. 7	43.367	272	30.12	182	33.84	38	25.61	219	17.156	257	38.46	155	56.592	263	63.27	41
17	43.639	236	31.94	225	34.22	32	27.80	264	17.413	227	40.01	198	56.855	241	63.68	28
27	43.875	195	34.19	260	34.54	25	30.44	300	17.640	192	41.99	231	57.096	216	63.96	18
Nov. 6	44.070	151	36.79	284	34.79	17	33.44	323	17.832	155	44.30	256	57.312	189	64.14	8
16	44.221	102	39.63	298	34.96	8	36.67	336	17.987	113	46.86	270	57.501	157	64.22	1
25*)	[24] 44.323	53	42.61	301	[25] 35.04	0	40.03	334	[25] 18.100	70	49.56	274	57.658	123	64.21	5
Dez. 5	44.376	2	45.62	291	35.04	9	43.37	322	18.170	26	52.30	268	[26] 57.781	85	64.16	8
15	44.378	49	48.53	273	34.95	17	46.59	297	18.196	20	54.98	253	57.866	44	64.08	11
25	44.329	98	51.26	243	34.78	25	49.56	262	18.176	65	57.51	227	57.910	3	63.97	13
35	44.231		53.69		34.53		52.18		18.111		59.78		57.913		63.84	
Mittl. Ort	40.778		58.83		31.07		55.37		14.606		66.40		53.711		46.83	
sec δ, tg δ	1.356		−0.915		2.177		−1.933		1.206		−0.674		1.048		+0.313	

*) Bei Stern 162) lies Nov. 26

Tag	164) ε Tauri				168) α Tauri				171) α Doradus				169) ν Eridani			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	4h 24m		+19° 1′		4h 31m		+16° 22′		4h 32m		−55° 10′		4h 32m		−3° 29′	
Jan. 0	32.035	20	42.45	4	54.562	14	18.09	17	31.037	186	85.15	254	49.778	23	37.19	114
10	32.015	61	42.41	6	54.548	55	17.92	18	30.851	244	87.69	212	49.755	61	38.33	98
20	31.954	97	42.35	9	54.493	92	17.74	18	30.607	292	89.81	163	49.694	97	39.31	81
30	31.857	129	42.26	13	54.401	124	17.56	18	30.315	331	91.44	111	49.597	126	40.12	63
Feb. 9	31.728	152	42.13	17	54.277	148	17.38	19	29.984	359	92.55	57	49.471	149	40.75	44
19	31.576	165	41.96	21	54.129	164	17.19	20	29.625	374	93.12	2	49.322	163	41.19	23
März 1	31.411	169	41.75	24	53.965	167	16.99	20	29.251	375	93.14	52	49.159	166	41.42	2
11	31.242	161	41.51	25	53.798	161	16.79	18	28.876	363	92.62	105	48.993	162	41.44	18
21	31.081	143	41.26	24	53.637	145	16.61	16	28.513	339	91.57	154	48.831	146	41.26	39
31	30.938	115	41.02	22	53.492	118	16.45	11	28.174	303	90.03	200	48.685	121	40.87	61
Apr. 10	30.823	79	40.80	16	53.374	84	16.34	4	27.871	255	88.03	242	48.564	90	40.26	82
20	30.744	38	40.64	8	53.290	43	16.30	6	27.616	200	85.61	278	48.474	52	39.44	103
30	30.706	9	40.56	3	53.247	1	16.36	17	27.416	138	82.83	307	48.422	10	38.41	123
Mai 10	30.715	57	40.59	16	53.248	48	16.53	30	27.278	71	79.76	331	48.412	35	37.18	141
20	30.772	104	40.75	30	53.296	95	16.83	43	27.207	1	76.45	346	48.447	79	35.77	157
30	30.876	150	41.05	45	53.391	140	17.26	57	27.206	68	72.99	355	48.526	122	34.20	171
Juni 9	31.026	191	41.50	59	53.531	182	17.83	71	27.274	136	69.44	353	48.648	162	32.49	180
19	31.217	229	42.09	72	53.713	219	18.54	83	27.410	200	65.91	343	48.810	199	30.69	185
29	31.446	260	42.81	83	53.932	250	19.37	92	27.610	259	62.48	325	49.009	229	28.84	185
Juli 9	31.706	286	43.64	92	54.182	277	20.29	99	27.869	312	59.23	297	49.238	255	26.99	181
19	31.992	304	44.56	99	54.459	296	21.28	102	28.181	355	56.26	261	49.493	276	25.18	170
29	32.296	317	45.55	100	54.755	309	22.30	103	28.536	390	53.65	216	49.769	289	23.48	155
Aug. 8	32.613	324	46.55	99	55.064	317	23.33	100	28.926	416	51.49	166	50.058	297	21.93	135
18	32.937	324	47.54	96	55.381	319	24.33	93	29.342	430	49.83	109	50.355	301	20.58	109
28	33.261	322	48.50	89	55.700	317	25.26	84	29.772	434	48.74	48	50.656	299	19.49	80
Sept. 7	33.583	313	49.39	79	56.017	311	26.10	71	30.206	428	48.26	15	50.955	292	18.69	49
17	33.896	301	50.18	68	56.328	300	26.81	58	30.634	410	48.41	78	51.247	282	18.20	17
27	34.197	287	50.86	57	56.628	286	27.39	44	31.044	383	49.19	138	51.529	269	18.03	16
Okt. 7	34.484	270	51.43	45	56.914	270	27.83	29	31.427	347	50.57	194	51.798	253	18.19	47
17	34.754	248	51.88	33	57.184	250	28.12	16	31.774	301	52.51	242	52.051	232	18.66	75
27	35.002	224	52.21	23	57.434	227	28.28	5	32.075	248	54.93	282	52.283	209	19.41	98
Nov. 6	35.226	197	52.44	15	57.661	200	28.33	4	32.323	189	57.75	311	52.492	182	20.39	116
16	35.423	164	52.59	8	57.861	169	28.29	11	32.512	124	60.86	328	52.674	151	21.55	129
26	35.587	130	52.67	4	58.030	135	28.18	16	32.636	57	64.14	333	52.825	118	22.84	136
Dez. 5	[27] 35.717	92	52.71	0	[29] 58.165	97	28.02	18	[29] 32.693	13	67.47	326	[30] 52.943	82	24.20	136
15	35.809	51	52.71	2	58.262	57	27.84	20	32.680	82	70.73	308	53.025	43	25.56	132
25	35.860	8	52.69	4	58.319	14	27.64	20	32.598	147	73.81	278	53.068	3	26.88	123
35	35.868		52.65		58.333		27.44		32.451		76.59		53.071		28.11	
Mittl. Ort	31.597		35.74		54.093		11.85		29.017		80.38		49.206		39.80	
sec δ, tg δ	1.058		+0.345		1.042		+0.294		1.752		−1.438		1.002		−0.061	

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Tag	172) 53 Eridani AR.		172) 53 Eridani Dekl.		174) τ Tauri AR.		174) τ Tauri Dekl.		173) Grb 848 AR.		173) Grb 848 Dekl.		175) 4 Camelop. AR.		175) 4 Camelop. Dekl.	
1930	4h 34m		−14° 25′		4h 38m		+22° 49′		4h 39m		+75° 48′		4h 42m		+56° 38′	
Jan. 0	59.091	34	82.62	161	2.964	9	34.08	17	25.44	24	75.63	267	10.777	51	17.92	189
10	59.057	74	84.23	138	2.955	52	34.25	12	25.20	40	78.30	234	10.726	124	19.81	166
20	58.983	108	85.61	112	2.903	92	34.37	7	24.80	54	80.64	193	10.602	190	21.47	135
30	58.875	138	86.73	85	2.811	127	34.44	1	24.26	66	82.57	145	10.412	245	22.82	99
Feb. 9	58.737	161	87.58	55	2.684	153	34.45	6	23.60	74	84.02	92	10.167	287	23.81	60
19	58.576	175	88.13	24	2.531	170	34.39	14	22.86	78	84.94	36	9.880	312	24.41	19
März 1	58.401	180	88.37	7	2.361	175	34.25	21	22.08	79	85.30	21	9.568	321	24.60	23
11	58.221	174	88.30	37	2.186	170	34.04	27	21.29	76	85.09	75	9.247	310	24.37	63
21	58.047	159	87.93	67	2.016	153	33.77	31	20.53	69	84.34	126	8.937	282	23.74	99
31	57.888	135	87.26	97	1.863	127	33.46	31	19.84	60	83.08	170	8.655	239	22.75	130
Apr. 10	57.753	102	86.29	124	1.736	91	33.15	30	19.24	48	81.38	206	8.416	182	21.45	155
20	57.651	65	85.05	151	1.645	49	32.85	26	18.76	33	79.32	235	8.234	115	19.90	173
30	57.586	23	83.54	175	1.596	3	32.59	17	18.43	17	76.97	253	8.119	40	18.17	184
Mai 10	57.563	22	81.79	195	1.593	45	32.42	8	18.26	1	74.44	262	8.079	37	16.33	187
20	57.585	67	79.84	212	1.638	93	32.34	4	18.25	16	71.82	262	8.116	116	14.46	184
30	57.652	111	77.72	225	1.731	141	32.38	18	18.41	33	69.20	254	8.232	192	12.62	173
Juni 9	57.763	153	75.47	232	1.872	184	32.56	31	18.74	48	66.66	238	8.424	263	10.89	157
19	57.916	190	73.15	234	2.056	223	32.87	44	19.22	62	64.28	215	8.687	327	9.32	137
29	58.106	223	70.81	229	2.279	256	33.31	57	19.84	75	62.13	187	9.014	383	7.95	114
Juli 9	58.329	250	68.52	219	2.535	284	33.88	67	20.59	86	60.26	153	9.397	430	6.81	87
19	58.579	272	66.33	201	2.819	304	34.55	76	21.45	95	58.73	116	9.827	468	5.94	58
29	58.851	287	64.32	178	3.123	319	35.31	80	22.40	102	57.57	77	10.295	496	5.36	29
Aug. 8	59.138	297	62.54	149	3.442	329	36.11	83	23.42	106	56.80	36	10.791	514	5.07	0
18	59.435	302	61.05	114	3.771	331	36.94	82	24.48	109	56.44	6	11.305	525	5.07	30
28	59.737	300	59.91	76	4.102	330	37.76	80	25.57	111	56.50	47	11.830	526	5.37	58
Sept. 7	60.037	295	59.15	36	4.432	325	38.56	74	26.68	109	56.97	89	12.356	520	5.95	85
17	60.332	285	58.79	7	4.757	315	39.30	66	27.77	107	57.86	128	12.876	507	6.80	110
27	60.617	271	58.86	47	5.072	302	39.96	59	28.84	102	59.14	166	13.383	487	7.90	134
Okt. 7	60.888	253	59.33	87	5.374	285	40.55	51	29.86	95	60.80	200	13.870	461	9.24	156
17	61.141	231	60.20	122	5.659	266	41.06	43	30.81	88	62.80	232	14.331	427	10.80	176
27	61.372	207	61.42	151	5.925	243	41.49	36	31.69	77	65.12	260	14.758	386	12.56	192
Nov. 6	61.579	178	62.93	173	6.168	215	41.85	30	32.46	65	67.72	282	15.144	338	14.48	206
16	61.757	146	64.66	189	6.383	184	42.15	26	33.11	51	70.54	299	15.482	281	16.54	215
26	61.903	111	66.55	196	6.567	148	42.41	23	33.62	36	73.53	307	15.763	218	18.69	220
Dez. 5	62.014	73	68.51	195	6.715	108	42.64	21	33.98	21	76.60	308	15.981	149	20.89	220
15	62.087	33	70.46	188	6.823	66	42.85	19	34.19	3	79.68	299	16.130	75	23.09	213
25	62.120	8	72.34	174	6.889	21	43.04	16	34.22	14	82.67	281	16.205	1	25.22	199
35	62.112		74.08		6.910		43.20		34.08		85.48		16.204		27.21	
Mittl. Ort	58.395		83.41		2.476		26.69		22.82		61.51		9.837		5.67	
sec δ, tg δ	1.033		−0.257		1.085		+0.421		4.081		+3.957		1.818		+1.519	

Tag	178) 9 Camelop. AR.	Δ	178) Dekl.	Δ	180) π^5 Orionis AR.	Δ	180) Dekl.	Δ	181) ι Aurigae AR.	Δ	181) Dekl.	Δ	183) ε Aurigae AR.	Δ	183) Dekl.	Δ
1930	4h 47m		+66° 13′		4h 50m		+2° 19′		4h 52m		+33° 3′		4h 56m		+43° 43′	
Jan. 0	6.12	9	47.71	234	36.795	5	42.30	91	26.516	2	33.62	72	57.229	2	27.31	130
10	6.03	19	50.05	207	36.790	45	41.39	80	26.518	49	34.34	64	57.227	60	28.61	117
20	5.84	28	52.12	172	36.745	83	40.59	67	26.469	94	34.98	52	57.167	114	29.78	97
30	5.56	36	53.84	131	36.662	115	39.92	54	26.375	135	35.50	37	57.053	161	30.75	73
Feb. 9	5.20	41	55.15	84	36.547	142	39.38	39	26.240	166	35.87	21	56.892	197	31.48	47
19	4.79	44	55.99	35	36.405	159	38.99	25	26.074	187	36.08	3	56.695	222	31.95	19
März 1	4.35	46	56.34	14	36.246	166	38.74	10	25.887	196	36.11	16	56.473	233	32.14	10
11	3.89	45	56.20	62	36.080	163	38.64	6	25.691	192	35.95	32	56.240	230	32.04	38
21	3.44	41	55.58	107	35.917	151	38.70	22	25.499	176	35.63	47	56.010	212	31.66	64
31	3.03	35	54.51	145	35.766	128	38.92	37	25.323	150	35.16	58	55.798	182	31.02	85
Apr. 10	2.68	27	53.06	178	35.638	98	39.29	55	25.173	113	34.58	67	55.616	140	30.17	103
20	2.41	19	51.28	203	35.540	62	39.84	71	25.060	69	33.91	70	55.476	90	29.14	115
30	2.22	9	49.25	218	35.478	21	40.55	89	24.991	19	33.21	70	55.386	34	27.99	121
Mai 10	2.13	1	47.07	227	35.457	23	41.44	105	24.972	33	32.51	66	55.352	26	26.78	123
20	2.14	12	44.80	226	35.480	68	42.49	120	25.005	86	31.85	58	55.378	86	25.55	118
30	2.26	22	42.54	219	35.548	111	43.69	133	25.091	137	31.27	48	55.464	146	24.37	109
Juni 9	2.48	31	40.35	204	35.659	151	45.02	144	25.228	185	30.79	35	55.610	200	23.28	97
19	2.79	41	38.31	183	35.810	188	46.46	151	25.413	228	30.44	20	55.810	251	22.31	81
29	3.20	48	36.48	158	35.998	220	47.97	153	25.641	266	30.24	5	56.061	295	21.50	64
Juli 9	3.68	54	34.90	129	36.218	247	49.50	153	25.907	299	30.19	10	56.356	333	20.86	44
19	4.22	60	33.61	97	36.465	269	51.03	147	26.206	323	30.29	23	56.689	363	20.42	25
29	4.82	65	32.64	63	36.734	285	52.50	136	26.529	341	30.52	36	57.052	385	20.17	5
Aug. 8	5.47	67	32.01	27	37.019	295	53.86	120	26.870	353	30.88	46	57.437	401	20.12	14
18	6.14	69	31.74	8	37.314	300	55.06	101	27.223	360	31.34	56	57.838	410	20.26	32
28	6.83	70	31.82	44	37.614	301	56.07	78	27.583	362	31.90	62	58.248	413	20.58	49
Sept. 7	7.53	69	32.26	78	37.915	298	56.85	51	27.945	358	32.52	67	58.661	410	21.07	65
17	8.22	68	33.04	111	38.213	290	57.36	25	28.303	350	33.19	70	59.071	403	21.72	78
27	8.90	65	34.15	143	38.503	280	57.61	3	28.653	339	33.89	73	59.474	390	22.50	91
Okt. 7	9.55	62	35.58	173	38.783	266	57.58	29	28.992	323	34.62	75	59.864	373	23.41	104
17	10.17	57	37.31	200	39.049	248	57.29	53	29.315	303	35.37	76	60.237	351	24.45	114
27	10.74	51	39.31	223	39.297	228	56.76	74	29.618	280	36.13	78	60.588	323	25.59	123
Nov. 6	11.25	44	41.54	242	39.525	203	56.02	90	29.898	251	36.91	79	60.911	290	26.82	132
16	11.69	37	43.96	256	39.728	173	55.12	101	30.149	216	37.70	81	61.201	250	28.14	139
26	12.06	28	46.52	265	39.901	140	54.11	108	30.365	177	38.51	82	61.451	204	29.53	143
Dez. 5*)	[3] 12.34	18	49.17	266	[4] 40.041	104	53.03	109	[5] 30.542	134	39.33	81	[6] 61.655	152	30.96	145
15	12.52	8	51.83	260	40.145	64	51.94	105	30.676	86	40.14	79	61.807	96	32.41	142
25	12.60	2	54.43	246	40.209	23	50.89	99	30.762	35	40.93	74	61.903	37	33.83	135
35	12.58		56.89		40.232		49.90		30.797		41.67		61.940		35.18	
Mittl. Ort	4.64		34.70		36.215		38.21		25.932		24.77		56.508		17.14	
sec δ, tg δ	2.481		+2.270		1.001		+0.041		1.193		+0.651		1.384		+0.956	

*) Bei Stern 183) lies Dez. 6

Tag	182) 10 Camelop. AR.	Diff.	182) 10 Camelop. Dekl.	Diff.	184) ι Tauri AR.	Diff.	184) ι Tauri Dekl.	Diff.
1930	$4^h\ 57^m$		$+60°\ 20'$		$4^h\ 58^m$		$+21°\ 29'$	
Jan. 0	12.18	3	43.93	213	55.153	10	36.42	9
10	12.15	12	46.06	190	55.163	35	36.51	9
20	12.03	20	47.96	161	55.128	78	36.60	7
30	11.83	27	49.57	124	55.050	115	36.67	3
Feb. 9	11.56	31	50.81	84	54.935	144	36.70	2
19	11.25	35	51.65	40	54.791	165	36.68	7
März 1	10.90	36	52.05	4	54.626	175	36.61	12
11	10.54	36	52.01	48	54.451	173	36.49	16
21	10.18	33	51.53	89	54.278	160	36.33	20
31	9.85	28	50.64	124	54.118	137	36.13	22
Apr. 10	9.57	23	49.40	154	53.981	105	35.91	20
20	9.34	16	47.86	177	53.876	65	35.71	17
30	9.18	8	46.09	193	53.811	22	35.54	11
Mai 10	9.10	1	44.16	201	53.789	25	35.43	2
20	9.11	9	42.15	202	53.814	73	35.41	8
30	9.20	18	40.13	195	53.887	119	35.49	19
Juni 9	9.38	26	38.18	182	54.006	163	35.68	31
19	9.64	33	36.36	165	54.169	203	35.99	42
29	9.97	39	34.71	143	54.372	237	36.41	52
Juli 9	10.36	45	33.28	116	54.609	266	36.93	60
19	10.81	50	32.12	89	54.875	290	37.53	67
29	11.31	53	31.23	59	55.165	307	38.20	70
Aug. 8	11.84	56	30.64	28	55.472	319	38.90	71
18	12.40	57	30.36	2	55.791	326	39.61	70
28	12.97	58	30.38	34	56.117	327	40.31	64
Sept. 7	13.55	58	30.72	64	56.444	325	40.95	57
17	14.13	56	31.36	92	56.769	319	41.52	50
27	14.69	55	32.28	120	57.088	310	42.02	41
Okt. 7	15.24	53	33.48	146	57.398	296	42.43	32
17	15.77	49	34.94	170	57.694	279	42.75	23
27	16.26	45	36.64	192	57.973	258	42.98	17
Nov. 6	16.71	39	38.56	209	58.231	233	43.15	12
16	17.10	33	40.65	223	58.464	204	43.27	8
26	17.43	26	42.88	233	58.668	169	43.35	7
Dez. 6	17.69	19	45.21	236	58.837	129	43.42	6
15	17.88	10	47.57	232	58.966	87	43.48	7
25	17.98	2	49.89	221	59.053	41	43.55	7
35	18.00		52.10		59.094		43.62	
Mittl. Ort	10.99		31.93		54.593		29.33	
sec δ, tg δ	2.021		+1.756		1.075		+0.394	

Tag	185) η Aurigae AR.	Diff.	185) η Aurigae Dekl.	Diff.	186) ε Leporis AR.	Diff.	186) ε Leporis Dekl.	Diff.
1930	$5^h\ 1^m$		$+41°\ 8'$		$5^h\ 2^m$		$-22°\ 27'$	
Jan. 0	36.862	7	39.26	118	30.721	25	49.23	206
10	36.869	50	40.44	105	30.696	69	51.29	180
20	36.819	103	41.49	89	30.627	108	53.09	150
30	36.716	149	42.38	69	30.519	143	54.59	117
Feb. 9	36.567	185	43.07	45	30.376	169	55.76	80
19	36.382	210	43.52	19	30.207	189	56.56	44
März 1	36.172	222	43.71	7	30.018	198	57.00	6
11	35.950	219	43.64	32	29.820	197	57.06	32
21	35.731	204	43.32	56	29.623	185	56.74	68
31	35.527	176	42.76	76	29.438	165	56.06	103
Apr. 10	35.351	136	42.00	91	29.273	135	55.03	136
20	35.215	89	41.09	103	29.138	100	53.67	167
30	35.126	36	40.06	108	29.038	58	52.00	194
Mai 10	35.090	22	38.98	109	28.980	14	50.06	219
20	35.112	79	37.89	105	28.966	31	47.87	238
30	35.191	136	36.84	96	28.997	77	45.49	253
Juni 9	35.327	190	35.88	85	29.074	120	42.96	261
19	35.517	239	35.03	70	29.194	161	40.35	262
29	35.756	281	34.33	54	29.355	198	37.73	258
Juli 9	36.037	318	33.79	36	29.553	229	35.15	245
19	36.355	347	33.43	18	29.782	256	32.70	225
29	36.702	369	33.25	1	30.038	277	30.45	199
Aug. 8	37.071	385	33.24	15	30.315	293	28.46	166
18	37.456	395	33.39	31	30.608	302	26.80	127
28	37.851	398	33.70	45	30.910	306	25.53	84
Sept. 7	38.249	396	34.15	59	31.216	305	24.69	37
17	38.645	390	34.74	70	31.521	300	24.32	12
27	39.035	379	35.44	81	31.821	289	24.44	60
Okt. 7	39.414	363	36.25	90	32.110	274	25.04	105
17	39.777	342	37.15	100	32.384	255	26.09	147
27	40.119	317	38.15	108	32.639	231	27.56	183
Nov. 6	40.436	285	39.23	115	32.870	202	29.39	211
16	40.721	248	40.38	122	33.072	170	31.50	230
26	40.969	204	41.60	126	33.242	132	33.80	242
Dez. 6	41.173	155	42.86	127	33.374	92	36.22	243
15	41.328	101	44.13	126	33.466	49	38.65	236
25	41.429	45	45.39	121	33.515	4	41.01	221
35	41.474		46.60		33.519		43.22	
Mittl. Ort	36.158		29.55		29.840		50.25	
sec δ, tg δ	1.328		+0.874		1.082		−0.413	

Tag	188) β Eridani AR.		188) β Eridani Dekl.		192) μ Aurigae AR.		192) μ Aurigae Dekl.		191) 19 H. Camelop. AR.		191) 19 H. Camelop. Dekl.		194) β Orionis AR.		194) β Orionis Dekl.	
1930	$5^h\ 4^m$		−5° 10′		$5^h\ 8^m$		+38° 24′		$5^h\ 10^m$		+79° 9′		$5^h\ 11^m$		−8° 16′	
Jan. 0	25.129	0	29.13	133	38.820	17	20.97	104	63.25	20	30.57	294	11.075	3	49.45	150
10	25.129	42	30.46	116	38.837	39	22.01	94	63.05	42	33.51	268	11.078	40	50.95	132
20	25.087	80	31.62	98	38.798	90	22.95	81	62.63	62	36.19	233	11.038	79	52.27	111
30	25.007	115	32.60	77	38.708	136	23.76	64	62.01	78	38.52	188	10.959	115	53.38	88
Feb. 9	24.892	143	33.37	56	38.572	173	24.40	43	61.23	92	40.40	137	10.844	143	54.26	63
19	24.749	161	33.93	33	38.399	199	24.83	21	60.31	100	41.77	82	10.701	164	54.89	39
März 1	24.588	171	34.26	11	38.200	211	25.04	2	59.31	105	42.59	24	10.537	174	55.28	13
11	24.417	171	34.37	12	37.989	211	25.02	25	58.26	104	42.83	34	10.363	174	55.41	13
21	24.246	160	34.25	34	37.778	198	24.77	46	57.22	98	42.49	89	10.189	165	55.28	38
31	24.086	140	33.91	57	37.580	172	24.31	64	56.24	88	41.60	139	10.024	146	54.90	62
Apr. 10	23.946	112	33.34	79	37.408	135	23.67	78	55.36	74	40.21	182	9.878	119	54.28	87
20	23.834	77	32.55	100	37.273	91	22.89	88	54.62	58	38.39	219	9.759	85	53.41	111
30	23.757	38	31.55	121	37.182	40	22.01	94	54.04	38	36.20	246	9.674	46	52.30	132
Mai 10	23.719	5	30.34	139	37.142	15	21.07	94	53.66	18	33.74	264	9.628	4	50.98	153
20	23.724	49	28.95	156	37.157	71	20.13	90	53.48	3	31.10	273	9.624	40	49.45	169
30	23.773	91	27.39	169	37.228	125	19.23	83	53.51	25	28.37	273	9.664	83	47.76	184
Juni 9	23.864	132	25.70	179	37.353	176	18.40	72	53.76	45	25.64	265	9.747	123	45.92	193
19	23.996	170	23.91	185	37.529	224	17.68	59	54.21	65	22.99	249	9.870	162	43.99	198
29	24.166	204	22.06	185	37.753	266	17.09	44	54.86	82	20.50	226	10.032	197	42.01	198
Juli 9	24.370	232	20.21	181	38.019	302	16.65	29	55.68	98	18.24	198	10.229	225	40.03	193
19	24.602	255	18.40	170	38.321	330	16.36	13	56.66	113	16.26	165	10.454	250	38.10	181
29	24.857	274	16.70	155	38.651	353	16.23	1	57.79	123	14.61	129	10.704	269	36.29	163
Aug. 8	25.131	286	15.15	134	39.004	368	16.24	16	59.02	132	13.32	90	10.973	283	34.66	141
18	25.417	294	13.81	108	39.372	379	16.40	29	60.34	138	12.42	48	11.256	292	33.25	112
28	25.711	297	12.73	78	39.751	384	16.69	40	61.72	142	11.94	6	11.548	296	32.13	80
Sept. 7	26.008	296	11.95	46	40.135	383	17.09	50	63.14	143	11.88	36	11.844	297	31.33	44
17	26.304	291	11.49	11	40.518	378	17.59	60	64.57	142	12.24	79	12.141	292	30.89	8
27	26.595	282	11.38	23	40.896	368	18.19	68	65.99	138	13.03	121	12.433	285	30.81	29
Okt. 7	26.877	270	11.61	55	41.264	355	18.87	75	67.37	132	14.24	161	12.718	273	31.10	66
17	27.147	253	12.16	87	41.619	336	19.62	82	68.69	123	15.85	198	12.991	257	31.76	98
27	27.400	233	13.03	113	41.955	312	20.44	90	69.92	111	17.83	232	13.248	237	32.74	126
Nov. 6	27.633	209	14.16	133	42.267	284	21.34	96	71.03	97	20.15	262	13.485	213	34.00	149
16	27.842	180	15.49	147	42.551	248	22.30	101	72.00	80	22.77	286	13.698	184	35.49	165
26	28.022	147	16.96	155	42.799	207	23.31	106	72.80	61	25.63	304	13.882	152	37.14	173
Dez. 6	28.169	111	18.51	157	43.006	160	24.37	109	73.41	40	28.67	313	14.034	114	38.87	176
15	[8] 28.280	70	20.08	152	[9] 43.166	108	25.46	109	[9] 73.81	17	31.80	313	[9] 14.148	74	40.63	171
25	28.350	29	21.60	144	43.274	54	26.55	106	73.98	5	34.93	303	14.222	31	42.34	161
35	28.379		23.04		43.328		27.61		73.93		37.96		14.253		43.95	
Mittl. Ort	24.461		32.48		38.120		11.79		59.00		17.96		10.365		52.62	
sec δ, tg δ	1.004		−0.091		1.276		+0.793		5.315		+5.220		1.011		−0.146	

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Tag	193) α Aurigae AR.	Δ	193) α Aurigae Dekl.	Δ	196) ϑ Doradus AR.	Δ	196) ϑ Doradus Dekl.	Δ	201) γ Orionis AR.	Δ	201) γ Orionis Dekl.	Δ	202) β Tauri AR.	Δ	202) β Tauri Dekl.	Δ
1930	5h 11m		+45° 55′		5h 13m		−67° 15′		5h 21m		+6° 17′		5h 21m		+28° 32′	
Jan. 0	31.715 s	14	53.17 ″	145	51.90 s	27	52.09 ″	297	23.176 s	25	20.30 ″	78	52.588 s	33	67.54 ″	49
10	31.729	48	54.62	131	51.63	36	55.06	260	23.201	20	19.52	68	52.621	17	68.03	46
20	31.681	106	55.93	113	51.27	44	57.66	215	23.181	62	18.84	57	52.604	66	68.49	42
30	31.575	157	57.06	90	50.83	50	59.81	166	23.119	99	18.27	46	52.538	109	68.91	34
Feb. 9	31.418	199	57.96	63	50.33	56	61.47	113	23.020	130	17.81	34	52.429	144	69.25	25
19	31.219	228	58.59	34	49.77	59	62.60	57	22.890	153	17.47	23	52.285	170	69.50	13
März 1	30.991	242	58.93	3	49.18	61	63.17	1	22.737	165	17.24	11	52.115	184	69.63	1
11	30.749	243	58.96	28	48.57	61	63.18	54	22.572	168	17.13	0	51.931	187	69.64	11
21	30.506	228	58.68	56	47.96	58	62.64	107	22.404	160	17.13	11	51.744	178	69.53	23
31	30.278	199	58.12	81	47.38	54	61.57	156	22.244	141	17.24	24	51.566	157	69.30	32
Apr. 10	30.079	160	57.31	102	46.84	49	60.01	203	22.103	116	17.48	36	51.409	127	68.98	39
20	29.919	110	56.29	118	46.35	43	57.98	245	21.987	81	17.84	50	51.282	88	68.59	43
30	29.809	53	55.11	128	45.92	34	55.53	281	21.906	43	18.34	63	51.194	43	68.16	44
Mai 10	29.756	7	53.83	133	45.58	26	52.72	310	21.863	1	18.97	76	51.151	4	67.72	42
20	29.763	69	52.50	132	45.32	17	49.62	333	21.862	43	19.73	90	51.155	54	67.30	36
30	29.832	130	51.18	126	45.15	6	46.29	348	21.905	86	20.63	101	51.209	102	66.94	29
Juni 9	29.962	188	49.92	116	45.09	3	42.81	354	21.991	127	21.64	111	51.311	149	66.65	20
19	30.150	241	48.76	103	45.12	13	39.27	351	22.118	165	22.75	119	51.460	192	66.45	9
29	30.391	289	47.73	86	45.25	22	35.76	339	22.283	199	23.94	123	51.652	229	66.36	0
Juli 9	30.680	329	46.87	69	45.47	31	32.37	319	22.482	229	25.17	124	51.881	263	66.36	11
19	31.009	363	46.18	49	45.78	39	29.18	288	22.711	253	26.41	120	52.144	290	66.47	20
29	31.372	389	45.69	29	46.17	46	26.30	248	22.964	272	27.61	113	52.434	312	66.67	27
Aug. 8	31.761	408	45.40	10	46.63	52	23.82	201	23.236	286	28.74	101	52.746	327	66.94	32
18	32.169	420	45.30	10	47.15	56	21.81	147	23.522	296	29.75	85	53.073	338	67.26	37
28	32.589	427	45.40	27	47.71	58	20.34	87	23.818	301	30.60	66	53.411	344	67.63	38
Sept. 7	33.016	427	45.67	45	48.29	60	19.47	23	24.119	303	31.26	44	53.755	345	68.01	38
17	33.443	422	46.12	62	48.89	59	19.24	42	24.422	300	31.70	21	54.100	343	68.39	38
27	33.865	413	46.74	77	49.48	57	19.66	107	24.722	294	31.91	3	54.443	336	68.77	37
Okt. 7	34.278	398	47.51	91	50.05	53	20.73	168	25.016	285	31.88	27	54.779	327	69.14	35
17	34.676	376	48.42	106	50.58	47	22.41	223	25.301	272	31.61	47	55.106	311	69.49	34
27	35.052	350	49.48	118	51.05	40	24.64	271	25.573	254	31.14	65	55.417	293	69.83	34
Nov. 6	35.402	317	50.66	130	51.45	31	27.35	309	25.827	232	30.49	80	55.710	269	70.17	35
16	35.719	277	51.96	140	51.76	22	30.44	335	26.059	205	29.69	90	55.979	239	70.52	37
26	35.996	230	53.36	147	51.98	12	33.79	349	26.264	174	28.79	95	56.218	203	70.89	39
Dez. 6	36.226	176	54.83	152	52.10	1	37.28	351	26.438	138	27.84	96	56.421	162	71.28	43
15	36.402	118	56.35	152	52.11	10	40.79	339	26.576	96	26.88	92	56.583	116	71.71	45
25	36.520	56	57.87	147	52.01	21	44.18	319	26.672	54	25.96	86	56.699	67	72.16	47
35	36.576		59.34		51.80		47.37		26.726		25.10		56.766		72.63	
Mittl. Ort	30.883		43.23		48.38		50.60		22.541		15.13		51.928		59.80	
sec δ, tg δ	1.438		+1.033		2.587		−2.386		1.006		+0.110		1.138		+0.544	

Tag	203) 17 Camelop. AR.		Dekl.		206) δ Orionis AR.		Dekl.		207) α Leporis AR.		Dekl.		205) Grb 966 AR.		Dekl.	
1930	$5^h 23^m$		$+63° 0'$		$5^h 28^m$		$-0° 20'$		$5^h 29^m$		$-17° 51'$		$5^h 30^m$		$+74° 59'$	
Jan. 0	34.73	0	51.20	233	26.443	25	54.17	116	39.383	7	73.72	202	24.41	4	74.48	285
10	34.73	9	53.53	215	26.468	18	55.33	102	39.390	39	75.74	180	24.37	21	77.33	265
20	34.64	18	55.68	190	26.450	61	56.35	87	39.351	81	77.54	154	24.16	36	79.98	235
30	34.46	26	57.58	156	26.389	99	57.22	70	39.270	120	79.08	124	23.80	50	82.33	197
Feb. 9	34.20	33	59.14	118	26.290	129	57.92	51	39.150	150	80.32	92	23.30	61	84.30	151
19	33.87	37	60.32	74	26.161	153	58.43	34	39.000	174	81.24	58	22.69	69	85.81	101
März 1	33.50	39	61.06	28	26.008	167	58.77	16	38.826	187	81.82	25	22.00	73	86.82	46
11	33.11	40	61.34	17	25.841	170	58.93	3	38.639	191	82.07	9	21.27	74	87.28	9
21	32.71	38	61.17	62	25.671	164	58.90	20	38.448	184	81.98	42	20.53	72	87.19	63
31	32.33	34	60.55	103	25.507	146	58.70	39	38.264	168	81.56	75	19.81	66	86.56	112
Apr. 10	31.99	29	59.52	139	25.361	122	58.31	56	38.096	143	80.81	106	19.15	56	85.44	157
20	31.70	22	58.13	168	25.239	89	57.75	75	37.953	110	79.75	136	18.59	45	83.87	194
30	31.48	13	56.45	190	25.150	52	57.00	92	37.843	73	78.39	163	18.14	31	81.93	224
Mai 10	31.35	5	54.55	205	25.098	11	56.08	108	37.770	31	76.76	186	17.83	17	79.69	245
20	31.30	4	52.50	212	25.087	31	55.00	123	37.739	12	74.90	207	17.66	1	77.24	257
30	31.34	14	50.38	212	25.118	74	53.77	136	37.751	55	72.83	222	17.65	14	74.67	262
Juni 9	31.48	22	48.26	206	25.192	115	52.41	146	37.806	98	70.61	233	17.79	29	72.05	257
19	31.70	30	46.20	193	25.307	153	50.95	153	37.904	139	68.28	238	18.08	44	69.48	246
29	32.00	38	44.27	176	25.460	187	49.42	155	38.043	174	65.90	237	18.52	57	67.02	228
Juli 9	32.38	45	42.51	154	25.647	218	47.87	153	38.217	207	63.53	228	19.09	69	64.74	205
19	32.83	50	40.97	128	25.865	242	46.34	146	38.424	234	61.25	214	19.78	80	62.69	177
29	33.33	54	39.69	101	26.107	262	44.88	135	38.658	258	59.11	191	20.58	88	60.92	145
Aug. 8	33.87	58	38.68	71	26.369	278	43.53	117	38.916	276	57.20	163	21.46	96	59.47	110
18	34.45	61	37.97	40	26.647	289	42.36	97	39.192	289	55.57	129	22.42	101	58.37	72
28	35.06	62	37.57	9	26.936	295	41.39	72	39.481	296	54.28	90	23.43	104	57.65	33
Sept. 7	35.68	63	37.48	23	27.231	298	40.67	43	39.777	301	53.38	47	24.47	106	57.32	6
17	36.31	62	37.71	55	27.529	296	40.24	14	40.078	300	52.91	2	25.53	106	57.38	46
27	36.93	62	38.26	86	27.825	292	40.10	17	40.378	294	52.89	43	26.59	105	57.84	87
Okt. 7	37.55	60	39.12	115	28.117	283	40.27	46	40.672	284	53.32	87	27.64	101	58.71	125
17	38.15	57	40.27	144	28.400	270	40.73	72	40.956	270	54.19	128	28.65	96	59.96	162
27	38.72	52	41.71	171	28.670	254	41.45	97	41.226	250	55.47	164	29.61	88	61.58	197
Nov. 6	39.24	47	43.42	194	28.924	232	42.42	115	41.476	226	57.11	192	30.49	79	63.55	228
16	39.71	41	45.36	214	29.156	206	43.57	128	41.702	197	59.03	214	31.28	67	65.83	255
26	40.12	34	47.50	230	29.362	174	44.85	135	41.899	163	61.17	226	31.95	54	68.38	275
Dez. 6	40.46	25	49.80	240	29.536	138	46.20	137	42.062	124	63.43	230	32.49	40	71.13	289
15	40.71	16	52.20	243	29.674	99	47.57	134	42.186	82	65.73	227	32.89	23	74.02	294
25	40.87	7	54.63	238	29.773	54	48.91	125	42.268	36	68.00	215	33.12	6	76.96	290
35	40.94		57.01		29.827		50.16		42.304		70.15		33.18		79.86	
Mittl. Ort	33.17		40.28		25.763		58.74		38.532		76.62		21.21		63.22	
sec δ, tg δ	2.203		+1.964		1.000		−0.006		1.051		−0.322		3.864		+3.732	

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Tag	209) ι Orionis				210) ε Orionis				212) β Doradus				211) ζ Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	5h 31m		−5° 56′		5h 32m		−1° 14′		5h 32m		−62° 31′		5h 33m		+21° 6′	
Jan. 0	61.232	24	72.70	147	40.332	29	38.70	122	63.74	16	67.02	314	28.277	43	11.62	5
10	61.256	21	74.17	130	40.361	16	39.92	108	63.58	25	70.16	281	28.320	6	11.67	8
20	61.235	63	75.47	111	40.345	58	41.00	92	63.33	33	72.97	240	28.314	52	11.75	9
30	61.172	101	76.58	89	40.287	97	41.92	73	63.00	39	75.37	194	28.262	94	11.84	10
Feb. 9	61.071	133	77.47	67	40.190	129	42.65	55	62.61	44	77.31	142	28.168	129	11.94	8
19	60.938	156	78.14	43	40.061	152	43.20	36	62.17	47	78.73	88	28.039	156	12.02	6
März 1	60.782	171	78.57	20	39.909	167	43.56	18	61.70	50	79.61	33	27.883	172	12.08	0
11	60.611	174	78.77	3	39.742	171	43.74	2	61.20	50	79.94	21	27.711	176	12.08	3
21	60.437	168	78.74	27	39.571	164	43.72	21	60.70	48	79.73	75	27.535	170	12.05	7
31	60.269	152	78.47	50	39.407	149	43.51	40	60.22	46	78.98	126	27.365	153	11.98	10
Apr. 10	60.117	128	77.97	72	39.258	124	43.11	58	59.76	42	77.72	175	27.212	125	11.88	11
20	59.989	97	77.25	94	39.134	93	42.53	77	59.34	37	75.97	219	27.087	91	11.77	10
30	59.892	59	76.31	115	39.041	56	41.76	94	58.97	30	73.78	258	26.996	50	11.67	7
Mai 10	59.833	18	75.16	133	38.985	15	40.82	111	58.67	23	71.20	291	26.946	6	11.60	2
20	59.815	23	73.83	151	38.970	27	39.71	127	58.44	16	68.29	317	26.940	40	11.58	5
30	59.838	66	72.32	164	38.997	70	38.44	139	58.28	7	65.12	337	26.980	86	11.63	13
Juni 9	59.904	107	70.68	175	39.067	110	37.05	150	58.21	1	61.75	347	27.066	130	11.76	21
19	60.011	145	68.93	180	39.177	148	35.55	156	58.22	9	58.28	350	27.196	170	11.97	29
29	60.156	180	67.13	182	39.325	183	33.99	158	58.31	17	54.78	342	27.366	206	12.26	37
Juli 9	60.336	210	65.31	178	39.508	213	32.41	156	58.48	25	51.36	325	27.572	239	12.63	43
19	60.546	236	63.53	169	39.721	239	30.85	149	58.73	32	48.11	299	27.811	265	13.06	46
29	60.782	257	61.84	154	39.960	260	29.36	137	59.05	37	45.12	264	28.076	287	13.52	49
Aug. 8	61.039	274	60.30	133	40.220	275	27.99	120	59.42	43	42.48	219	28.363	303	14.01	48
18	61.313	285	58.97	107	40.495	287	26.79	98	59.85	47	40.29	168	28.666	315	14.49	46
28	61.598	293	57.90	78	40.782	294	25.81	72	60.32	50	38.61	110	28.981	322	14.95	40
Sept. 7	61.891	297	57.12	45	41.076	297	25.09	43	60.82	51	37.51	47	29.303	325	15.35	33
17	62.188	295	56.67	10	41.373	296	24.66	12	61.33	51	37.04	18	29.628	325	15.68	24
27	62.483	291	56.57	26	41.669	293	24.54	18	61.84	50	37.22	83	29.953	320	15.92	15
Okt. 7	62.774	282	56.83	60	41.962	284	24.72	49	62.34	48	38.05	146	30.273	313	16.07	7
17	63.056	270	57.43	92	42.246	272	25.21	77	62.82	43	39.51	204	30.586	301	16.14	1
27	63.326	253	58.35	120	42.518	256	25.98	101	63.25	38	41.55	255	30.887	284	16.13	7
Nov. 6	63.579	232	59.55	142	42.774	235	26.99	121	63.63	32	44.10	298	31.171	263	16.06	10
16	63.811	204	60.97	158	43.009	208	28.20	134	63.95	24	47.08	328	31.434	236	15.96	12
26	64.015	174	62.55	167	43.217	178	29.54	141	64.19	16	50.36	348	31.670	203	15.84	11
Dez. 6	64.189	136	64.22	170	43.395	141	30.95	144	64.35	7	53.84	355	31.873	165	15.73	8
15	64.325	96	65.92	166	43.536	101	32.39	140	64.42	2	57.39	349	32.038	122	15.65	5
25	64.421	53	67.58	157	43.637	58	33.79	132	64.40	12	60.88	333	32.160	76	15.60	0
35	64.474		69.15		43.695		35.11		64.28		64.21		32.236		15.60	
Mittl. Ort	60.508		76.81		39.640		43.27		60.91		67.55		27.620		4.84	
sec δ, tg δ	1.005		−0.104		1.000		−0.022		2.168		−1.924		1.072		+0.386	

Tag	215) α Columbae AR.		Dekl.		216) ο Aurigae AR.		Dekl.		219) ζ Leporis AR.		Dekl.		220) κ Orionis AR.		Dekl.	
1930	5h 37m		−34° 6′		5h 40m		+49° 47′		5h 43m		−14° 50′		5h 44m		−9° 41′	
Jan. 0	7.962s	17	36.18″	268	29.623s	52	60.43″	170	47.811s	24	44.95″	195	26.942s	31	31.61″	170
10	7.945	68	38.86	240	29.675	19	62.13	161	47.835	22	46.90	175	26.973	15	33.31	153
20	7.877	116	41.26	207	29.656	85	63.74	146	47.813	66	48.65	151	26.958	59	34.84	131
30	7.761	157	43.33	169	29.571	146	65.20	125	47.747	106	50.16	124	26.899	98	36.15	107
Feb. 9	7.604	193	45.02	126	29.425	198	66.45	98	47.641	139	51.40	94	26.801	131	37.22	81
19	7.411	218	46.28	83	29.227	235	67.43	68	47.502	164	52.34	63	26.670	156	38.03	55
März 1	7.193	234	47.11	38	28.992	259	68.11	35	47.338	180	52.97	32	26.514	173	38.58	27
11	6.959	238	47.49	8	28.733	267	68.46	1	47.158	186	53.29	0	26.341	179	38.85	1
21	6.721	232	47.41	53	28.466	259	68.47	33	46.972	182	53.29	31	26.162	174	38.86	26
31	6.489	216	46.88	95	28.207	236	68.14	63	46.790	168	52.98	61	25.988	161	38.60	52
Apr. 10	6.273	189	45.93	137	27.971	199	67.51	91	46.622	144	52.37	90	25.827	137	38.08	77
20	6.084	156	44.56	174	27.772	152	66.60	114	46.478	115	51.47	118	25.690	108	37.31	102
30	5.928	116	42.82	208	27.620	96	65.46	132	46.363	78	50.29	144	25.582	72	36.29	125
Mai 10	5.812	72	40.74	238	27.524	34	64.14	143	46.285	39	48.85	168	25.510	33	35.04	145
20	5.740	24	38.36	263	27.490	30	62.71	149	46.246	3	47.17	187	25.477	9	33.59	164
30	5.716	24	35.73	282	27.520	95	61.22	150	46.249	46	45.30	203	25.486	51	31.95	178
Juni 9	5.740	72	32.91	293	27.615	157	59.72	145	46.295	88	43.27	214	25.537	92	30.17	190
19	5.812	117	29.98	298	27.772	216	58.27	137	46.383	127	41.13	221	25.629	131	28.27	195
29	5.929	161	27.00	294	27.988	270	56.90	125	46.510	163	38.92	221	25.760	166	26.32	197
Juli 9	6.090	200	24.06	282	28.258	317	55.65	109	46.673	196	36.71	214	25.926	198	24.35	192
19	6.290	235	21.24	262	28.575	357	54.56	93	46.869	224	34.57	202	26.124	225	22.43	182
29	6.525	264	18.62	234	28.932	390	53.63	74	47.093	248	32.55	183	26.349	249	20.61	166
Aug. 8	6.789	288	16.28	198	29.322	417	52.89	54	47.341	267	30.72	157	26.598	266	18.95	142
18	7.077	307	14.30	154	29.739	437	52.35	33	47.608	281	29.15	126	26.864	280	17.53	115
28	7.384	319	12.76	106	30.176	450	52.02	13	47.889	292	27.89	90	27.144	290	16.38	83
Sept. 7	7.703	326	11.70	53	30.626	457	51.89	6	48.181	297	26.99	49	27.434	295	15.55	46
17	8.029	326	11.17	3	31.083	459	51.95	27	48.478	298	26.50	7	27.729	296	15.09	8
27	8.355	321	11.20	60	31.542	454	52.22	46	48.776	296	26.43	37	28.025	294	15.01	30
Okt. 7	8.676	310	11.80	114	31.996	444	52.68	66	49.072	288	26.80	78	28.319	288	15.31	68
17	8.986	293	12.94	165	32.440	427	53.34	86	49.360	276	27.58	118	28.607	276	15.99	104
27	9.279	269	14.59	210	32.867	403	54.20	104	49.636	260	28.76	152	28.883	260	17.03	135
Nov. 6	9.548	240	16.69	247	33.270	372	55.24	122	49.896	238	30.28	181	29.143	240	18.38	160
16	9.788	204	19.16	275	33.642	333	56.46	138	50.134	211	32.09	202	29.383	213	19.98	178
26	9.992	163	21.91	293	33.975	284	57.84	152	50.345	178	34.11	215	29.596	182	21.76	190
Dez. 6	10.155	117	24.84	299	34.259	228	59.36	164	50.523	141	36.26	220	29.778	146	23.66	194
16	10.272	68	27.83	296	34.487	165	61.00	169	50.664	98	38.46	217	29.924	104	25.60	191
25	(16) 10.340	16	30.79	282	(17) 34.652	98	62.69	169	(18) 50.762	54	40.63	207	(18) 30.028	60	27.51	182
35	10.356		33.61		34.750		64.38		50.816		42.70		30.088		29.33	
Mittl. Ort	6.784		38.30		28.565		51.33		46.984		48.73		26.169		35.79	
sec δ, tg δ	1.208		−0.677		1.549		+1.183		1.035		−0.265		1.014		−0.171	

Scheinbare Sternörter 1930

Tag	224) α Orionis				225) δ Aurigae				227) β Aurigae				228) ϑ Aurigae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	5h 51m		+7° 23′		5h 53m		+54° 16′		5h 54m		+44° 56′		5h 54m		+37° 12′	
Jan. 0	23.582	53	49.34	80	47.063	71	62.17	195	24.640	72	39.93	144	57.726	71	41.38	98
10	23.635	6	48.54	68	47.134	8	64.12	186	24.712	7	41.37	139	57.797	13	42.36	98
20	23.641	39	47.86	57	47.126	83	65.98	172	24.719	57	42.76	130	57.810	44	43.34	92
30	23.602	81	47.29	44	47.043	152	67.70	150	24.662	115	44.06	115	57.766	96	44.26	83
Feb. 9	23.521	116	46.85	33	46.891	211	69.20	122	24.547	165	45.21	94	57.670	141	45.09	69
19	23.405	144	46.52	21	46.680	257	70.42	90	24.382	203	46.15	69	57.529	176	45.78	51
März 1	23.261	161	46.31	11	46.423	286	71.32	53	24.179	229	46.84	42	57.353	199	46.29	31
11	23.100	168	46.20	0	46.137	298	71.85	15	23.950	239	47.26	13	57.154	208	46.60	11
21	22.932	166	46.20	10	45.839	294	72.00	23	23.711	235	47.39	16	56.946	206	46.71	11
31	22.766	151	46.30	21	45.545	272	71.77	58	23.476	218	47.23	43	56.740	189	46.60	30
Apr. 10	22.615	130	46.51	31	45.273	236	71.19	91	23.258	187	46.80	68	56.551	162	46.30	48
20	22.485	100	46.82	43	45.037	186	70.28	119	23.071	145	46.12	89	56.389	125	45.82	63
30	22.385	64	47.25	54	44.851	128	69.09	142	22.926	97	45.23	105	56.264	81	45.19	74
Mai 10	22.321	24	47.79	65	44.723	63	67.67	158	22.829	41	44.18	116	56.183	32	44.45	80
20	22.297	18	48.44	76	44.660	7	66.09	169	22.788	16	43.02	124	56.151	20	43.65	84
30	22.315	60	49.20	87	44.667	78	64.40	173	22.804	75	41.78	125	56.171	73	42.81	83
Juni 9	22.375	101	50.07	96	44.745	145	62.67	173	22.879	132	40.53	123	56.244	123	41.98	80
19	22.476	139	51.03	102	44.890	211	60.94	166	23.011	185	39.30	116	56.367	171	41.18	73
29	22.615	174	52.05	106	45.101	272	59.28	156	23.196	236	38.14	108	56.538	215	40.45	66
Juli 9	22.789	206	53.11	107	45.373	325	57.72	142	23.432	279	37.06	96	56.753	254	39.79	56
19	22.995	233	54.18	104	45.698	372	56.30	124	23.711	317	36.10	82	57.007	288	39.23	46
29	23.228	255	55.22	96	46.070	412	55.06	106	24.028	350	35.28	68	57.295	315	38.77	36
Aug. 8	23.483	273	56.18	86	46.482	444	54.00	84	24.378	375	34.60	54	57.610	338	38.41	27
18	23.756	286	57.04	72	46.926	469	53.16	62	24.753	395	34.06	38	57.948	356	38.14	17
28	24.042	296	57.76	53	47.395	488	52.54	39	25.148	409	33.68	22	58.304	368	37.97	8
Sept. 7	24.338	301	58.29	32	47.883	498	52.15	15	25.557	419	33.46	7	58.672	376	37.89	0
17	24.639	304	58.61	11	48.381	504	52.00	8	25.976	422	33.39	8	59.048	379	37.89	8
27	24.943	302	58.72	13	48.885	502	52.08	32	26.398	422	33.47	24	59.427	379	37.97	15
Okt. 7	25.245	298	58.59	35	49.387	494	52.40	57	26.820	415	33.71	39	59.806	373	38.12	23
17	25.543	289	58.24	55	49.881	478	52.97	81	27.235	402	34.10	55	60.179	363	38.35	33
27	25.832	275	57.69	73	50.359	454	53.78	104	27.637	385	34.65	71	60.542	347	38.68	41
Nov. 6	26.107	257	56.96	86	50.813	421	54.82	127	28.022	358	35.36	86	60.889	324	39.09	51
16	26.364	233	56.10	95	51.234	379	56.09	147	28.380	325	36.22	102	61.213	295	39.60	62
26	26.597	203	55.15	100	51.613	327	57.56	166	28.705	283	37.24	117	61.508	259	40.22	72
Dez. 6	26.800	167	54.15	99	51.940	266	59.22	180	28.988	233	38.41	128	61.767	215	40.94	82
16	[20] 26.967	127	53.16	96	[20] 52.206	197	61.02	189	[20] 29.221	176	39.69	136	[20] 61.982	165	41.76	89
25	27.094	83	52.20	88	52.403	122	62.91	193	29.397	114	41.05	141	62.147	109	42.65	95
35	27.177		51.32		52.525		64.84		29.511		42.46		62.256		43.60	
Mittl. Ort	22.897		43.75		45.788		53.44		23.654		31.79		56.881		33.76	
sec δ, tg δ	1.008		+0.130		1.713		+1.391		1.413		+0.998		1.256		+0.759	

Tag	229) η Columbae AR.		Dekl.		232) ν Orionis AR.		Dekl.		236) η Geminorum AR.		Dekl.		234) 22 H. Camelop. AR.		Dekl.	
1930	$5^h\ 56^m$		$-42°\ 48'$		$6^h\ 3^m$		$+14°\ 46'$		$6^h\ 10^m$		$+22°\ 31'$		$6^h\ 11^m$		$+69°\ 20'$	
Jan. 0	61.701	18	63.35	304	35.231	69	47.47	39	39.894	81	49.63	8	10.75	10	59.08	266
10	61.683	77	66.39	278	35.300	21	47.08	30	39.975	30	49.71	14	10.85	2	61.74	259
20	61.606	131	69.17	244	35.321	27	46.78	21	40.005	20	49.85	19	10.83	15	64.33	242
30	61.475	181	71.61	205	35.294	71	46.57	13	39.985	68	50.04	22	10.68	26	66.75	214
Feb. 9	61.294	221	73.66	160	35.223	110	46.44	8	39.917	110	50.26	23	10.42	36	68.89	180
19	61.073	253	75.26	113	35.113	140	46.36	2	39.807	142	50.49	20	10.06	44	70.69	138
März 1	60.820	273	76.39	64	34.973	160	46.34	1	39.665	165	50.69	17	9.62	49	72.07	92
11	60.547	282	77.03	14	34.813	170	46.35	4	39.500	176	50.86	11	9.13	53	72.99	41
21	60.265	279	77.17	35	34.643	169	46.39	7	39.324	176	50.97	6	8.60	52	73.40	9
31	59.986	265	76.82	83	34.474	157	46.46	9	39.148	166	51.03	1	8.08	50	73.31	58
Apr. 10	59.721	241	75.99	128	34.317	135	46.55	13	38.982	144	51.04	4	7.58	44	72.73	103
20	59.480	208	74.71	171	34.182	107	46.68	17	38.838	114	51.00	7	7.14	38	71.70	144
30	59.272	167	73.00	209	34.075	71	46.85	22	38.724	78	50.93	9	6.76	29	70.26	179
Mai 10	59.105	120	70.91	244	34.004	31	47.07	29	38.646	37	50.84	8	6.47	19	68.47	207
20	58.985	71	68.47	272	33.973	11	47.36	36	38.609	7	50.76	5	6.28	9	66.40	226
30	58.914	19	65.75	295	33.984	54	47.72	42	38.616	51	50.71	2	6.19	3	64.14	239
Juni 9	58.895	33	62.80	309	34.038	96	48.14	50	38.667	94	50.69	2	6.22	14	61.75	244
19	58.928	85	59.71	317	34.134	135	48.64	55	38.761	136	50.71	7	6.36	24	59.31	242
29	59.013	134	56.54	315	34.269	171	49.19	60	38.897	174	50.78	12	6.60	35	56.89	235
Juli 9	59.147	181	53.39	306	34.440	204	49.79	62	39.071	209	50.90	16	6.95	44	54.54	220
19	59.328	223	50.33	286	34.644	232	50.41	62	39.280	238	51.06	18	7.39	53	52.34	201
29	59.551	261	47.47	258	34.876	256	51.03	58	39.518	264	51.24	19	7.92	60	50.33	178
Aug. 8	59.812	292	44.89	221	35.132	275	51.61	53	39.782	284	51.43	18	8.52	67	48.55	152
18	60.104	318	42.68	178	35.407	290	52.14	44	40.066	302	51.61	14	9.19	72	47.03	121
28	60.422	338	40.90	126	35.697	302	52.58	32	40.368	314	51.75	10	9.91	75	45.82	90
Sept. 7	60.760	350	39.64	69	35.999	310	52.90	19	40.682	323	51.85	4	10.66	78	44.92	55
17	61.110	356	38.95	10	36.309	313	53.09	4	41.005	329	51.89	4	11.44	80	44.37	20
27	61.466	354	38.85	50	36.622	315	53.13	12	41.334	330	51.85	11	12.24	80	44.17	16
Okt. 7	61.820	346	39.35	111	36.937	311	53.01	27	41.664	329	51.74	18	13.04	79	44.33	53
17	62.166	329	40.46	168	37.248	304	52.74	40	41.993	322	51.56	23	13.83	78	44.86	90
27	62.495	304	42.14	218	37.552	292	52.34	50	42.315	311	51.33	27	14.61	73	45.76	126
Nov. 6	62.799	272	44.32	260	37.844	275	51.84	58	42.626	295	51.06	28	15.34	68	47.02	160
16	63.071	233	46.92	295	38.119	253	51.26	63	42.921	271	50.78	26	16.02	61	48.62	192
26	63.304	186	49.87	317	38.372	223	50.63	63	43.192	241	50.52	22	16.63	53	50.54	219
Dez. 6	63.490	135	53.04	329	38.595	187	50.00	60	43.433	205	50.30	15	17.16	43	52.73	242
16	63.625	78	56.33	329	38.782	147	49.40	54	43.638	162	50.15	8	17.59	31	55.15	257
25	[21] 63.703	19	59.62	318	[23] 38.929	101	48.86	47	[24] 43.800	114	50.07	0	[25] 17.90	19	57.72	264
35	63.722		62.80		39.030		48.39		43.914		50.07		18.09		60.36	
Mittl. Ort	60.241		66.52		34.531		41.40		39.157		43.25		8.20		50.68	
sec δ, tg δ	1.363		−0.927		1.034		+0.264		1.083		+0.415		2.835		+2.653	

Scheinbare Sternörter 1930

Tag	240) ζ Canis maj.				241) μ Geminorum				242) ψ¹ Aurigae				243) β Canis maj.			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1930	6ʰ 17ᵐ		−30° 1′		6ʰ 18ᵐ		+22° 33′		6ʰ 19ᵐ		+49° 19′		6ʰ 19ᵐ		−17° 54′	
Jan. 0	38.591	34	47.55	275	44.334	90	10.27	5	31.742	110	39.47	167	37.875	55	66.82	225
10	38.625	18	50.30	255	44.424	38	10.32	13	31.852	37	41.14	166	37.930	5	69.07	207
20	38.607	68	52.85	227	44.462	13	10.45	20	31.889	34	42.80	160	37.935	42	71.14	182
30	38.539	115	55.12	193	44.449	61	10.65	23	31.855	101	44.40	145	37.893	86	72.96	155
Feb. 9	38.424	155	57.05	156	44.388	103	10.88	24	31.754	159	45.85	126	37.807	125	74.51	124
19	38.269	186	58.61	116	44.285	138	11.12	23	31.595	207	47.11	101	37.682	156	75.75	91
März 1	38.083	209	59.77	74	44.147	162	11.35	19	31.388	240	48.12	71	37.526	177	76.66	57
11	37.874	221	60.51	31	43.985	175	11.54	15	31.148	258	48.83	39	37.349	188	77.23	24
21	37.653	222	60.82	11	43.810	176	11.69	9	30.890	261	49.22	6	37.161	190	77.47	10
31	37.431	212	60.71	52	43.634	167	11.78	3	30.629	249	49.28	27	36.971	182	77.37	43
Apr. 10	37.219	194	60.19	92	43.467	147	11.81	2	30.380	221	49.01	57	36.789	164	76.94	75
20	37.025	167	59.27	130	43.320	118	11.79	5	30.159	183	48.44	85	36.625	138	76.19	105
30	36.858	134	57.97	166	43.202	83	11.74	7	29.976	134	47.59	108	36.487	107	75.14	134
Mai 10	36.724	95	56.31	197	43.119	43	11.67	8	29.842	79	46.51	126	36.380	70	73.80	159
20	36.629	53	54.34	225	43.076	0	11.59	6	29.763	20	45.25	139	36.310	31	72.21	182
30	36.576	9	52.09	246	43.076	44	11.53	3	29.743	42	43.86	147	36.279	9	70.39	201
Juni 9	36.567	35	49.63	263	43.120	87	11.50	0	29.785	103	42.39	150	36.288	51	68.38	215
19	36.602	79	47.00	272	43.207	128	11.50	4	29.888	161	40.89	149	36.339	90	66.23	223
29	36.681	120	44.28	275	43.335	167	11.54	8	30.049	216	39.40	144	36.429	128	64.00	225
Juli 9	36.801	159	41.53	269	43.502	201	11.62	12	30.265	266	37.96	135	36.557	163	61.75	222
19	36.960	194	38.84	255	43.703	231	11.74	13	30.531	311	36.61	124	36.720	194	59.53	211
29	37.154	226	36.29	234	43.934	258	11.87	13	30.842	349	35.37	111	36.914	221	57.42	194
Aug. 8	37.380	254	33.95	203	44.192	280	12.00	12	31.191	381	34.26	96	37.135	245	55.48	168
18	37.634	276	31.92	167	44.472	297	12.12	9	31.572	408	33.30	80	37.380	264	53.80	138
28	37.910	294	30.25	123	44.769	311	12.21	4	31.980	429	32.50	62	37.644	280	52.42	102
Sept. 7	38.204	308	29.02	74	45.080	322	12.25	3	32.409	443	31.88	44	37.924	292	51.40	60
17	38.512	316	28.28	22	45.402	328	12.22	10	32.852	454	31.44	26	38.216	299	50.80	16
27	38.828	319	28.06	33	45.730	331	12.12	18	33.306	458	31.18	6	38.515	303	50.64	30
Okt. 7	39.147	317	28.39	86	46.061	331	11.94	24	33.764	457	31.12	15	38.818	301	50.94	76
17	39.464	308	29.25	138	46.392	326	11.70	30	34.221	448	31.27	35	39.119	294	51.70	118
27	39.772	293	30.63	185	46.718	316	11.40	33	34.669	433	31.62	57	39.413	283	52.88	158
Nov. 6	40.065	271	32.48	226	47.034	300	11.07	33	35.102	409	32.19	78	39.696	265	54.46	191
16	40.336	242	34.74	257	47.334	278	10.74	32	35.511	377	32.97	100	39.961	241	56.37	217
26	40.578	207	37.31	279	47.612	249	10.42	27	35.888	334	33.97	119	40.202	210	58.54	234
Dez. 6	40.785	166	40.10	292	47.861	213	10.15	20	36.222	282	35.16	138	40.412	174	60.88	243
16	40.951	118	43.02	295	48.074	170	9.95	11	36.504	223	36.54	152	40.586	132	63.31	244
26	41.069	68	45.97	287	48.244	124	9.84	2	36.727	156	38.06	161	40.718	84	65.75	236
35	²⁶41.137		48.84		²⁶48.368		9.82		²⁷36.883		39.67		²⁷40.802		68.11	
Mittl. Ort	37.511		52.42		43.586		4.03		30.553		32.32		36.997		71.97	
sec.δ, tg δ	1.155		−0.578		1.083		+0.415		1.534		+1.164		1.051		−0.323	

Tag	244) 8 Monocerotis AR.		244) Dekl.		245) α Argus AR.		245) Dekl.	
1930	6h 20m		+4° 37′		6h 22m		−52° 38′	
Jan. 0	4.269	77	52.65	105	25.715	18	79.67	339
10	4.346	30	51.60	91	25.697	90	83.06	316
20	4.376	18	50.69	76	25.607	157	86.22	285
30	4.358	62	49.93	61	25.450	218	89.07	247
Feb. 9	4.296	100	49.32	45	25.232	270	91.54	202
19	4.196	131	48.87	30	24.962	310	93.56	154
März 1	4.065	154	48.57	16	24.652	340	95.10	103
11	3.911	165	48.41	3	24.312	356	96.13	51
21	3.746	168	48.38	11	23.956	358	96.64	2
31	3.578	159	48.49	23	23.598	349	96.62	53
Apr. 10	3.419	140	48.72	36	23.249	326	96.09	103
20	3.279	115	49.08	48	22.923	294	95.06	151
30	3.164	83	49.56	61	22.629	252	93.55	194
Mai 10	3.081	47	50.17	72	22.377	204	91.61	234
20	3.034	7	50.89	83	22.173	149	89.27	268
30	3.027	33	51.72	94	22.024	91	86.59	295
Juni 9	3.060	72	52.66	102	21.933	30	83.64	315
19	3.132	111	53.68	109	21.903	31	80.49	327
29	3.243	146	54.77	111	21.934	91	77.22	331
Juli 9	3.389	179	55.88	111	22.025	150	73.91	324
19	3.568	207	56.99	107	22.175	205	70.67	309
29	3.775	232	58.06	98	22.380	255	67.58	284
Aug. 8	4.007	253	59.04	86	22.635	300	64.74	249
18	4.260	269	59.90	69	22.935	339	62.25	206
28	4.529	283	60.59	49	23.274	370	60.19	155
Sept. 7	4.812	293	61.08	26	23.644	394	58.64	98
17	5.105	300	61.34	1	24.038	408	57.66	36
27	5.405	303	61.35	24	24.446	413	57.30	29
Okt. 7	5.708	303	61.11	50	24.859	408	57.59	93
17	6.011	298	60.61	73	25.267	393	58.52	154
27	6.309	288	59.88	93	25.660	368	60.06	211
Nov. 6	6.597	274	58.95	110	26.028	331	62.17	261
16	6.871	252	57.85	120	26.359	285	64.78	302
26	7.123	226	56.65	126	26.644	230	67.80	331
Dez. 6	7.349	191	55.39	127	26.874	168	71.11	349
16	7.540	152	54.12	122	27.042	99	74.60	356
26	7.692	109	52.90	113	27.141	27	78.16	350
35	[27]7.801		51.77		[27]27.168		81.66	
Mittl. Ort	3.550		46.98		23.802		84.83	
sec δ, tg δ	1.003		+0.081		1.648		−1.311	

Tag	246) 10 Monocerotis AR.		246) Dekl.		247) 8 Lyncis AR.		247) Dekl.	
1930	6h 24m		−4° 42′		6h 31m		+61° 32′	
Jan. 0	30.937	74	57.77	160	19.71	14	48.93	228
10	31.011	26	59.37	143	19.85	5	51.21	228
20	31.037	22	60.80	125	19.90	5	53.49	219
30	31.015	65	62.05	104	19.85	15	55.68	200
Feb. 9	30.950	104	63.09	81	19.70	22	57.68	175
19	30.846	135	63.90	59	19.48	29	59.43	141
März 1	30.711	157	64.49	35	19.19	34	60.84	103
11	30.554	170	64.84	13	18.85	36	61.87	60
21	30.384	172	64.97	9	18.49	38	62.47	16
31	30.212	164	64.88	30	18.11	36	62.63	27
Apr. 10	30.048	148	64.58	52	17.75	33	62.36	69
20	29.900	122	64.06	72	17.42	29	61.67	107
30	29.778	92	63.34	91	17.13	22	60.60	140
Mai 10	29.686	57	62.43	110	16.91	15	59.20	167
20	29.629	18	61.33	125	16.76	8	57.53	189
30	29.611	21	60.08	140	16.68	1	55.64	204
Juni 9	29.632	61	58.68	150	16.69	9	53.60	211
19	29.693	99	57.18	158	16.78	17	51.49	214
29	29.792	135	55.60	160	16.95	24	49.35	211
Juli 9	29.927	166	54.00	158	17.19	31	47.24	202
19	30.093	196	52.42	152	17.50	38	45.22	189
29	30.289	221	50.90	139	17.88	44	43.33	173
Aug. 8	30.510	243	49.51	121	18.32	48	41.60	152
18	30.753	262	48.30	99	18.80	52	40.08	130
28	31.015	276	47.31	72	19.32	56	38.78	105
Sept. 7	31.291	287	46.59	41	19.88	58	37.73	78
17	31.578	294	46.18	7	20.46	60	36.95	49
27	31.872	299	46.11	28	21.06	61	36.46	20
Okt. 7	32.171	299	46.39	62	21.67	61	36.26	12
17	32.470	294	47.01	94	22.28	60	36.38	44
27	32.764	284	47.95	122	22.88	58	36.82	76
Nov. 6	33.048	270	49.17	146	23.46	55	37.58	108
16	33.318	249	50.63	164	24.01	50	38.66	139
26	33.567	221	52.27	175	24.51	44	40.05	167
Dez. 6	33.788	187	54.02	180	24.95	38	41.72	191
16	33.975	148	55.82	178	25.33	30	43.63	209
26	34.123	104	57.60	169	25.63	20	45.72	223
35	[28]34.227		59.29		[30]25.83		47.95	
Mittl. Ort	30.179		63.31		17.86		42.10	
sec δ, tg δ	1.003		−0.083		2.099		+1.845	

Scheinbare Sternörter 1930

Tag	249) ξ² Canis maj. AR.		249) ξ² Canis maj. Dekl.		251) γ Geminorum AR.		251) γ Geminorum Dekl.	
1930	6ʰ 32ᵐ		−22° 54′		6ʰ 33ᵐ		+16° 27′	
Jan. 0	8.268	61	24.11	253	40.867	101	43.63	36
10	8.329	10	26.64	235	40.968	50	43.27	25
20	8.339	40	28.99	210	41.018	0	43.02	15
30	8.299	86	31.09	181	41.018	48	42.87	6
Feb. 9	8.213	126	32.90	147	40.970	91	42.81	2
19	8.087	160	34.37	112	40.879	125	42.83	7
März 1	7.927	183	35.49	75	40.754	151	42.90	11
11	7.744	197	36.24	37	40.603	166	43.01	12
21	7.547	201	36.61	0	40.437	170	43.13	14
31	7.346	194	36.61	36	40.267	163	43.27	14
Apr. 10	7.152	178	36.25	72	40.104	147	43.41	14
20	6.974	155	35.53	107	39.957	121	43.55	16
30	6.819	123	34.46	138	39.836	90	43.71	17
Mai 10	6.696	88	33.08	167	39.746	53	43.88	20
20	6.608	50	31.41	193	39.693	13	44.08	24
30	6.558	9	29.48	214	39.680	28	44.32	29
Juni 9	6.549	32	27.34	229	39.708	69	44.61	32
19	6.581	73	25.05	240	39.777	109	44.93	36
29	6.654	112	22.65	244	39.886	145	45.29	39
Juli 9	6.766	148	20.21	240	40.031	180	45.68	39
19	6.914	181	17.81	230	40.211	209	46.07	39
29	7.095	211	15.51	212	40.420	235	46.46	35
Aug. 8	7.306	237	13.39	186	40.655	258	46.81	29
18	7.543	260	11.53	153	40.913	277	47.10	21
28	7.803	278	10.00	115	41.190	292	47.31	11
Sept. 7	8.081	293	8.85	72	41.482	305	47.42	2
17	8.374	302	8.13	24	41.787	313	47.40	16
27	8.676	308	7.89	26	42.100	319	47.24	29
Okt. 7	8.984	309	8.15	75	42.419	320	46.95	42
17	9.293	304	8.90	123	42.739	319	46.53	54
27	9.597	293	10.13	166	43.058	311	45.99	63
Nov. 6	9.890	275	11.79	203	43.369	298	45.36	68
16	10.165	252	13.82	234	43.667	278	44.68	70
26	10.417	221	16.16	254	43.945	252	43.98	69
Dez. 6	10.638	183	18.70	267	44.197	218	43.29	64
16	10.821	141	21.37	270	44.415	178	42.65	55
26	10.962	93	24.07	263	44.593	133	42.10	45
35	30 11.055		26.70		30 44.726		41.65	
Mittl. Ort	7.327		29.80		40.132		37.76	
sec δ, tg δ	1.086		−0.423		1.043		+0.295	

Tag	250) 51 Aurigae AR.		250) 51 Aurigae Dekl.		248) 23 H. Camelop. AR.		248) 23 H. Camelop. Dekl.	
1930	6ʰ 33ᵐ		+39° 27′		6ʰ 34ᵐ		+79° 38′	
Jan. 0	49.577	120	21.60	106	25.07	23	47.37	302
10	49.697	58	22.66	112	25.30	2	50.39	299
20	49.755	3	23.78	113	25.28	26	53.38	285
30	49.752	63	24.91	107	25.02	49	56.23	259
Feb. 9	49.689	115	25.98	97	24.53	69	58.82	224
19	49.574	159	26.95	82	23.84	86	61.06	180
März 1	49.415	190	27.77	64	22.98	99	62.86	129
11	49.225	209	28.41	41	21.99	105	64.15	75
21	49.016	214	28.82	18	20.94	108	64.90	17
31	48.802	206	29.00	5	19.86	106	65.07	39
Apr. 10	48.596	186	28.95	27	18.80	99	64.68	93
20	48.410	156	28.68	47	17.81	87	63.75	143
30	48.254	116	28.21	65	16.94	73	62.32	186
Mai 10	48.138	71	27.56	79	16.21	56	60.46	223
20	48.067	22	26.77	89	15.65	36	58.23	251
30	48.045	29	25.88	95	15.29	15	55.72	271
Juni 9	48.074	80	24.93	98	15.14	5	53.01	284
19	48.154	129	23.95	99	15.19	27	50.17	288
29	48.283	176	22.96	96	15.46	47	47.29	285
Juli 9	48.459	218	22.00	92	15.93	67	44.44	274
19	48.677	256	21.08	86	16.60	85	41.70	258
29	48.933	289	20.22	78	17.45	100	39.12	235
Aug. 8	49.222	317	19.44	71	18.45	115	36.77	208
18	49.539	341	18.73	64	19.60	127	34.69	176
28	49.880	360	18.09	55	20.87	138	32.93	141
Sept. 7	50.240	375	17.54	46	22.25	144	31.52	103
17	50.615	386	17.08	37	23.69	149	30.49	62
27	51.001	393	16.71	27	25.18	152	29.87	20
Okt. 7	51.394	394	16.44	17	26.70	152	29.67	25
17	51.788	391	16.27	5	28.22	149	29.92	69
27	52.179	381	16.22	9	29.71	142	30.61	113
Nov. 6	52.560	365	16.31	24	31.13	132	31.74	157
16	52.925	340	16.55	40	32.45	120	33.31	196
26	53.265	307	16.95	56	33.65	104	35.27	232
Dez. 6	53.572	265	17.51	72	34.69	85	37.59	262
16	53.837	216	18.23	87	35.54	63	40.21	284
26	54.053	160	19.10	98	36.17	39	43.05	297
35	30 54.213		20.08		30 36.56		46.02	
Mittl. Ort	48.605		15.40		19.221		40.29	
sec δ, tg δ	1.295		+0.823		5.563		+5.472	

Tag	252) ν Argus				253) *S* Monocerotis				254) ε Geminorum				256) ξ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	6h 35m		−43° 7′		6h 37m		+9° 57′		6h 39m		+25° 12′		6h 41m		+12° 58′	
Jan. 0*)	38.563	29	56.07	325	^{0}8.154	99	48.62	77	^{0}38.410	114	13.08	17	^{1}22.418	105	26.55	61
10	38.592	32	59.32	306	8.253	49	47.85	65	38.524	60	13.25	27	22.523	55	25.94	48
20	38.560	91	62.38	278	8.302	1	47.20	51	38.584	7	13.52	35	22.578	5	25.46	35
30	38.469	146	65.16	243	8.303	46	46.69	38	38.591	45	13.87	39	22.583	42	25.11	24
Feb. 9	38.323	194	67.59	202	8.257	88	46.31	25	38.546	90	14.26	40	22.541	85	24.87	14
19	38.129	232	69.61	158	8.169	123	46.06	15	38.456	128	14.66	38	22.456	120	24.73	4
März 1	37.897	260	71.19	111	8.046	147	45.91	4	38.328	157	15.04	34	22.336	146	24.69	3
11	37.637	276	72.30	62	7.899	163	45.87	4	38.171	174	15.38	27	22.190	163	24.72	8
21	37.361	282	72.92	12	7.736	166	45.91	12	37.997	179	15.65	18	22.027	168	24.80	13
31	37.079	275	73.04	36	7.570	161	46.03	19	37.818	173	15.83	10	21.859	162	24.93	17
Apr. 10	36.804	258	72.68	83	7.409	145	46.22	25	37.645	157	15.93	1	21.697	147	25.10	21
20	36.546	232	71.85	128	7.264	122	46.47	33	37.488	131	15.94	6	21.550	124	25.31	25
30	36.314	198	70.57	171	7.142	91	46.80	40	37.357	99	15.88	12	21.426	93	25.56	30
Mai 10	36.116	157	68.86	208	7.051	56	47.20	48	37.258	60	15.76	16	21.333	59	25.86	35
20	35.959	112	66.78	242	6.995	17	47.68	55	37.198	18	15.60	18	21.274	20	26.21	40
30	35.847	64	64.36	269	6.978	22	48.23	62	37.180	25	15.42	19	21.254	20	26.61	45
Juni 9	35.783	14	61.67	290	7.000	61	48.85	68	37.205	69	15.23	19	21.274	60	27.06	50
19	35.769	37	58.77	305	7.061	100	49.53	73	37.274	110	15.04	17	21.334	98	27.56	53
29	35.806	87	55.72	309	7.161	136	50.26	75	37.384	149	14.87	15	21.432	134	28.09	56
Juli 9	35.893	134	52.63	305	7.297	169	51.01	75	37.533	185	14.72	13	21.566	168	28.65	56
19	36.027	179	49.58	293	7.466	198	51.76	73	37.718	217	14.59	12	21.734	198	29.21	54
29	36.206	220	46.65	271	7.664	224	52.49	66	37.935	246	14.47	12	21.932	225	29.75	48
Aug. 8	36.426	257	43.94	241	7.888	247	53.15	57	38.181	270	14.35	14	22.157	247	30.23	41
18	36.683	290	41.53	201	8.135	266	53.72	43	38.451	290	14.21	15	22.404	267	30.64	30
28	36.973	316	39.52	154	8.401	281	54.15	28	38.741	308	14.06	19	22.671	282	30.94	16
Sept. 7	37.289	338	37.98	101	8.682	293	54.43	10	39.049	321	13.87	24	22.953	296	31.10	1
17	37.627	352	36.97	42	8.975	303	54.53	10	39.370	331	13.63	29	23.249	306	31.11	16
27	37.979	360	36.55	18	9.278	309	54.43	31	39.701	338	13.34	34	23.555	312	30.95	34
Okt. 7	38.339	359	36.73	80	9.587	311	54.12	51	40.039	341	13.00	37	23.867	316	30.61	51
17	38.698	352	37.53	139	9.898	309	53.61	69	40.380	339	12.63	40	24.183	314	30.10	65
27	39.050	335	38.92	194	10.207	303	52.92	83	40.719	333	12.23	41	24.497	308	29.45	78
Nov. 6	39.385	310	40.86	243	10.510	290	52.09	95	41.052	320	11.82	38	24.805	297	28.67	86
16	39.695	275	43.29	283	10.800	271	51.14	103	41.372	300	11.44	32	25.102	278	27.81	92
26	39.970	234	46.12	312	11.071	245	50.11	105	41.672	272	11.12	25	25.380	253	26.89	92
Dez. 6	40.204	184	49.24	331	11.316	213	49.06	103	41.944	238	10.87	15	25.633	220	25.97	88
16	40.388	128	52.55	339	11.529	174	48.03	97	42.182	196	10.72	3	25.853	181	25.09	80
26	40.516	69	55.94	336	11.703	130	47.06	87	42.378	148	10.69	7	26.034	137	24.29	71
35	^{31}40.585		59.30		^{31}11.833		46.19		^{32}42.526		10.76		^{32}26.171		23.58	
Mittl. Ort	37.135		62.17		7.431		42.83		37.619		7.26		21.688		20.78	
sec δ, tg δ	1.370		−0.937		1.015		+0.176		1.105		+0.471		1.026		+0.230	

*) Bei Stern 256) lies Jan. 1

Tag	257) α Canis maj.[1] AR.	Diff.	257) Dekl.	Diff.	258) 18 Monocerotis AR.	Diff.	258) Dekl.	Diff.	262) α Pictoris AR.	Diff.	262) Dekl.	Diff.	261) θ Geminorum AR.	Diff.	261) Dekl.	Diff.
1930	6h 42m		−16° 36′		6h 44m		+2° 29′		6h 47m		−61° 51′		6h 48m		+34° 2′	
Jan. 1	4.591	73	64.79	231	13.446	99	29.83	125	31.05	1	49.87	361	11.564	133	55.70	70
10	4.664	23	67.10	213	13.545	50	28.58	111	31.04	11	53.48	343	11.697	74	56.40	79
20	4.687	25	69.23	190	13.595	2	27.47	93	30.93	20	56.91	317	11.771	14	57.19	85
30	4.662	70	71.13	163	13.597	44	26.54	76	30.73	28	60.08	283	11.785	42	58.04	85
Feb. 9	4.592	112	72.76	133	13.553	86	25.78	58	30.45	34	62.91	241	11.743	92	58.89	81
19	4.480	145	74.09	101	13.467	120	25.20	41	30.11	40	65.32	194	11.651	136	59.70	72
März 1	4.335	168	75.10	68	13.347	145	24.79	24	29.71	44	67.26	144	11.515	168	60.42	60
11	4.167	183	75.78	36	13.202	161	24.55	7	29.27	47	68.70	92	11.347	188	61.02	45
21	3.984	188	76.14	3	13.041	167	24.48	7	28.80	48	69.62	38	11.159	196	61.47	27
31	3.796	182	76.17	29	12.874	162	24.55	22	28.32	48	70.00	15	10.963	192	61.74	9
Apr. 10	3.614	167	75.88	59	12.712	147	24.77	37	27.84	46	69.85	68	10.771	176	61.83	8
20	3.447	144	75.29	89	12.565	126	25.14	50	27.38	43	69.17	119	10.595	149	61.75	25
30	3.303	115	74.40	117	12.439	97	25.64	63	26.95	38	67.98	166	10.446	115	61.50	39
Mai 10	3.188	80	73.23	142	12.342	63	26.27	76	26.57	33	66.32	210	10.331	75	61.11	51
20	3.108	43	71.81	164	12.279	27	27.03	88	26.24	26	64.22	249	10.256	30	60.60	60
30	3.065	4	70.17	182	12.252	11	27.91	98	25.98	20	61.73	282	10.226	16	60.00	66
Juni 9	3.061	35	68.35	197	12.263	50	28.89	106	25.78	13	58.91	307	10.242	63	59.34	69
19	3.096	74	66.38	206	12.313	87	29.95	112	25.65	5	55.84	325	10.305	108	58.65	71
29	3.170	112	64.32	209	12.400	123	31.07	115	25.60	3	52.59	334	10.413	151	57.94	70
Juli 9	3.282	146	62.23	207	12.523	155	32.22	114	25.63	10	49.25	334	10.564	191	57.24	68
19	3.428	178	60.16	198	12.678	185	33.36	110	25.73	18	45.91	324	10.755	227	56.56	66
29	3.606	206	58.18	181	12.863	211	34.46	100	25.91	25	42.67	303	10.982	258	55.90	63
Aug. 8	3.812	231	56.37	159	13.074	234	35.46	87	26.16	32	39.64	273	11.240	286	55.27	59
18	4.043	253	54.78	130	13.308	254	36.33	70	26.48	37	36.91	234	11.526	310	54.68	57
28	4.296	271	53.48	95	13.562	270	37.03	48	26.85	42	34.57	185	11.836	329	54.11	53
Sept. 7	4.567	284	52.53	56	13.832	284	37.51	23	27.27	47	32.72	129	12.165	345	53.58	50
17	4.851	295	51.97	12	14.116	295	37.74	4	27.74	49	31.43	68	12.510	358	53.08	47
27	5.146	301	51.85	32	14.411	301	37.70	31	28.23	50	30.75	3	12.868	367	52.61	43
Okt. 7	5.447	302	52.17	76	14.712	305	37.39	59	28.73	51	30.72	64	13.235	371	52.18	38
17	5.749	299	52.93	119	15.017	303	36.80	85	29.24	50	31.36	129	13.606	371	51.80	31
27	6.048	291	54.12	158	15.320	298	35.95	107	29.74	47	32.65	190	13.977	365	51.49	22
Nov. 6	6.339	276	55.70	191	15.618	286	34.88	126	30.21	42	34.55	245	14.342	352	51.27	11
16	6.615	254	57.61	218	15.904	268	33.62	138	30.63	37	37.00	292	14.694	332	51.16	2
26	6.869	226	59.79	236	16.172	243	32.24	146	31.00	30	39.92	328	15.026	303	51.18	16
Dez. 6	7.095	191	62.15	246	16.415	212	30.78	147	31.30	22	43.20	354	15.329	265	51.34	32
16	7.286	150	64.61	248	16.627	173	29.31	144	31.52	14	46.74	367	15.594	221	51.66	46
26	7.436	105	67.09	241	16.800	130	27.87	135	31.66	4	50.41	368	15.815	168	52.12	60
35	7.541		69.50		16.930		26.52		31.70		54.09		15.983		52.72	
Mittl. Ort	3.739		70.61		12.716		23.98		28.47		57.40		10.664		50.13	
sec δ, tg δ	1.044		−0.298		1.001		+0.044		2.121		−1.870		1.207		+0.676	

[1] Ort des Hauptsterns; die jährliche Parallaxe (0.38) ist bereits berücksichtigt.

Tag	266) ϑ Canis majoris				265) 15 Lyncis				268) ε Canis maj.				269) ζ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	6h 50m		−11° 56′		6h 51m		+58° 30′		6h 55m		−28° 52′		6h 59m		+20° 40′	
Jan. 1	(3) 57.063	92	52.91	208	(3) 14.985	175	65.70	209	(5) 53.450	79	25.92	287	(6) 58.300	131	33.57	18
10	57.155	43	54.99	191	15.160	86	67.79	215	53.529	25	28.79	271	58.431	79	33.39	4
20	57.198	6	56.90	171	15.246	5	69.94	211	53.554	29	31.50	248	58.510	26	33.35	7
30	57.192	53	58.61	147	15.241	91	72.05	200	53.525	78	33.98	218	58.536	25	33.42	16
Feb. 9	57.139	94	60.08	120	15.150	170	74.05	179	53.447	123	36.16	183	58.511	72	33.58	23
19	57.045	129	61.28	92	14.980	236	75.84	152	53.324	160	37.99	146	58.439	111	33.81	27
März 1	56.916	155	62.20	63	14.744	287	77.36	118	53.164	188	39.45	107	58.328	142	34.08	29
11	56.761	171	62.83	34	14.457	319	78.54	80	52.976	207	40.52	66	58.186	162	34.37	27
21	56.590	178	63.17	5	14.138	334	79.34	39	52.769	214	41.18	24	58.024	171	34.64	24
31	56.412	175	63.22	23	13.804	330	79.73	2	52.555	212	41.42	17	57.853	168	34.88	20
Apr. 10	56.237	161	62.99	49	13.474	306	79.71	43	52.343	200	41.25	56	57.685	156	35.08	15
20	56.076	142	62.50	76	13.168	269	79.28	81	52.143	179	40.69	95	57.529	135	35.23	12
30	55.934	114	61.74	101	12.899	218	78.47	115	51.964	152	39.74	131	57.394	106	35.35	8
Mai 10	55.820	81	60.73	123	12.681	158	77.32	143	51.812	118	38.43	165	57.288	71	35.43	5
20	55.739	46	59.50	144	12.523	90	75.89	167	51.694	81	36.78	194	57.217	34	35.48	4
30	55.693	8	58.06	161	12.433	19	74.22	185	51.613	41	34.84	219	57.183	7	35.52	4
Juni 9	55.685	30	56.45	175	12.414	54	72.37	196	51.572	0	32.65	239	57.190	47	35.56	4
19	55.715	67	54.70	184	12.468	126	70.41	202	51.572	41	30.26	253	57.237	87	35.60	5
29	55.782	103	52.86	189	12.594	196	68.39	204	51.613	82	27.73	259	57.324	125	35.65	5
Juli 9	55.885	138	50.97	187	12.790	260	66.35	199	51.695	120	25.14	259	57.449	159	35.70	5
19	56.023	168	49.10	180	13.050	320	64.36	192	51.815	157	22.55	250	57.608	191	35.75	3
29	56.191	197	47.30	166	13.370	374	62.44	179	51.972	191	20.05	234	57.799	220	35.78	0
Aug. 8	56.388	221	45.64	147	13.744	421	60.65	163	52.163	221	17.71	209	58.019	245	35.78	5
18	56.609	244	44.17	122	14.165	462	59.02	145	52.384	248	15.62	177	58.264	267	35.73	11
28	56.853	262	42.95	91	14.627	495	57.57	125	52.632	271	13.85	137	58.531	286	35.62	19
Sept. 7	57.115	278	42.04	54	15.122	523	56.32	101	52.903	291	12.48	91	58.817	302	35.43	28
17	57.393	290	41.50	15	15.645	544	55.31	76	53.194	306	11.57	42	59.119	315	35.15	38
27	57.683	298	41.35	25	16.189	558	54.55	49	53.500	317	11.15	12	59.434	324	34.77	48
Okt. 7	57.981	302	41.60	66	16.747	564	54.06	21	53.817	321	11.27	66	59.758	331	34.29	57
17	58.283	302	42.26	105	17.311	561	53.85	9	54.138	320	11.93	118	60.089	333	33.72	64
27	58.585	296	43.31	141	17.872	549	53.94	41	54.458	312	13.11	167	60.422	330	33.08	68
Nov. 6	58.881	284	44.72	172	18.421	527	54.35	72	54.770	297	14.78	210	60.752	321	32.40	70
16	59.165	265	46.44	196	18.948	491	55.07	104	55.067	274	16.88	246	61.073	304	31.70	68
26	59.430	239	48.40	213	19.439	444	56.11	133	55.341	244	19.34	273	61.377	280	31.02	61
Dez. 6	59.669	206	50.53	222	19.883	385	57.44	161	55.585	206	22.07	291	61.657	248	30.41	53
16	59.875	167	52.75	224	20.268	313	59.05	183	55.791	162	24.98	298	61.905	209	29.88	41
26	60.042	122	54.99	217	20.581	231	60.88	200	55.953	112	27.96	296	62.114	164	29.47	28
35*)	(35) 60.164		57.16		(35) 20.812		62.88		56.065		30.92		62.278		29.19	
Mittl. Ort	56.264		59.16		13.279		60.21		52.439		32.93		57.532		28.18	
sec δ, tg δ	1.022		−0.212		1.915		+1.633		1.142		−0.551		1.069		+0.377	

*) Bei Stern 268) und 269) lies Dez. 36

Scheinbare Sternörter 1930

Tag	271) γ Canis maj. AR.		271) γ Canis maj. Dekl.		273) δ Canis maj. AR.		273) δ Canis maj. Dekl.		274) 63 Aurigae AR.		274) 63 Aurigae Dekl.		277) λ Geminorum AR.		277) λ Geminorum Dekl.	
1930	7h 0m		−15° 31′		7h 5m		−26° 16′		7h 6m		+39° 26′		7h 14m		+16° 40′	
Jan. 1	6 36.349	98	36.84	229	7 33.611	92	44.39	280	7 51.667	162	15.96	97	9 5.043	141	10.12	47
10	36.447	48	39.13	214	33.703	39	47.19	265	51.829	99	16.93	109	5.184	90	9.65	33
20	36.495	1	41.27	193	33.742	13	49.84	243	51.928	36	18.02	116	5.274	38	9.32	19
30	36.494	49	43.20	167	33.729	63	52.27	214	51.964	27	19.18	117	5.312	12	9.13	6
Feb. 9	36.445	92	44.87	139	33.666	109	54.41	182	51.937	84	20.35	111	5.300	60	9.07	5
19	36.353	128	46.26	109	33.557	146	56.23	147	51.853	132	21.46	101	5.240	100	9.12	12
März 1	36.225	155	47.35	77	33.411	176	57.70	108	51.721	170	22.47	86	5.140	132	9.24	19
11	36.070	174	48.12	45	33.235	195	58.78	70	51.551	196	23.33	67	5.008	153	9.43	22
21	35.896	182	48.57	14	33.040	205	59.48	30	51.355	209	24.00	44	4.855	164	9.65	24
31	35.714	179	48.71	16	32.835	203	59.78	9	51.146	209	24.44	21	4.691	165	9.89	24
Apr. 10	35.535	169	48.55	47	32.632	193	59.69	47	50.937	195	24.65	3	4.526	154	10.13	23
20	35.366	150	48.08	76	32.439	174	59.22	85	50.742	171	24.62	25	4.372	136	10.36	23
30	35.216	123	47.32	104	32.265	149	58.37	119	50.571	139	24.37	46	4.236	111	10.59	22
Mai 10	35.093	92	46.28	129	32.116	117	57.18	152	50.432	98	23.91	64	4.125	78	10.81	22
20	35.001	58	44.99	151	31.999	82	55.66	180	50.334	54	23.27	79	4.047	43	11.03	22
30	34.943	20	43.48	171	31.917	43	53.86	205	50.280	6	22.48	90	4.004	6	11.25	23
Juni 9	34.923	17	41.77	186	31.874	4	51.81	225	50.274	43	21.58	98	3.998	33	11.48	24
19	34.940	55	39.91	197	31.870	36	49.56	239	50.317	91	20.60	104	4.031	71	11.72	25
29	34.995	92	37.94	202	31.906	75	47.17	246	50.408	136	19.56	107	4.102	107	11.97	24
Juli 9	35.087	125	35.92	202	31.981	113	44.71	247	50.544	180	18.49	107	4.209	141	12.21	23
19	35.212	158	33.90	195	32.094	148	42.24	240	50.724	219	17.42	106	4.350	173	12.44	20
29	35.370	188	31.95	181	32.242	181	39.84	224	50.943	255	16.36	103	4.523	201	12.64	14
Aug. 8	35.558	214	30.14	161	32.423	211	37.60	202	51.198	287	15.33	98	4.724	227	12.78	7
18	35.772	238	28.53	134	32.634	238	35.58	171	51.485	314	14.35	94	4.951	250	12.85	2
28	36.010	258	27.19	101	32.872	263	33.87	133	51.799	338	13.41	88	5.201	270	12.83	13
Sept. 7	36.268	275	26.18	64	33.135	282	32.54	90	52.137	358	12.53	81	5.471	288	12.70	26
17	36.543	289	25.54	23	33.417	299	31.64	43	52.495	376	11.72	74	5.759	302	12.44	40
27	36.832	299	25.31	21	33.716	310	31.21	9	52.871	388	10.98	65	6.061	314	12.04	54
Okt. 7	37.131	305	25.52	64	34.026	317	31.30	61	53.259	396	10.33	55	6.375	323	11.50	68
17	37.436	307	26.16	107	34.343	318	31.91	112	53.655	400	9.78	42	6.698	327	10.82	79
27	37.743	301	27.23	147	34.661	313	33.03	160	54.055	396	9.36	27	7.025	326	10.03	87
Nov. 6	38.044	290	28.70	180	34.974	300	34.63	202	54.451	385	9.09	11	7.351	319	9.16	92
16	38.334	272	30.50	208	35.274	280	36.65	237	54.836	367	8.98	9	7.670	305	8.24	94
26	38.606	246	32.58	228	35.554	251	39.02	265	55.203	338	9.07	28	7.975	284	7.30	90
Dez. 6	38.852	213	34.86	240	35.805	216	41.67	282	55.541	301	9.35	48	8.259	254	6.40	83
16	39.065	174	37.26	244	36.021	174	44.49	290	55.842	255	9.83	68	8.513	217	5.57	72
26	39.239	130	39.70	239	36.195	125	47.39	288	56.097	200	10.51	85	8.730	173	4.85	58
36	39.369		42.09		36.320		50.27		56.297		11.36		8.903		4.27	
Mittl. Ort	35.527		43.51		32.662		51.77		50.653		11.26		4.300		4.86	
sec δ, tg δ	1.038		−0.278		1.115		−0.494		1.295		+0.822		1.044		+0.299	

Tag	278) π Argus				279) δ Geminorum				281) δ Volantis				280) 19 Lyncis sq.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	7h 14m		−36° 57′		7h 15m		+22° 6′		7h 16m		−67° 49′		7h 17m		+55° 24′	
Jan. 1	$_{9}$41.323	90	66.86	323	$_{10}$57.463	150	50.93	14	$_{10}$55.55	2	34.84	375	$_{10}$11.381	212	58.76	185
10	41.413	31	70.09	309	57.613	96	50.79	1	55.57	9	38.59	364	11.593	129	60.61	197
20	41.444	26	73.18	287	57.709	42	50.80	14	55.48	20	42.23	345	11.722	44	62.58	201
30	41.418	81	76.05	259	57.751	10	50.94	24	55.28	31	45.68	316	11.766	39	64.59	197
Feb. 9	41.337	131	78.64	223	57.741	59	51.18	32	54.97	40	48.84	280	11.727	116	66.56	183
19	41.206	173	80.87	184	57.682	101	51.50	36	54.57	48	51.64	238	11.611	183	68.39	163
März 1	41.033	206	82.71	142	57.581	135	51.86	37	54.09	53	54.02	191	11.428	237	70.02	136
11	40.827	228	84.13	98	57.446	157	52.23	36	53.56	58	55.93	141	11.191	275	71.38	102
21	40.599	240	85.11	52	57.289	169	52.59	31	52.98	60	57.34	89	10.916	295	72.40	66
31	40.359	242	85.63	7	57.120	169	52.90	26	52.38	61	58.23	35	10.621	299	73.06	28
Apr. 10	40.117	232	85.70	38	56.951	160	53.16	20	51.77	60	58.58	19	10.322	286	73.34	12
20	39.885	214	85.32	82	56.791	141	53.36	13	51.17	58	58.39	71	10.036	258	73.22	49
30	39.671	189	84.50	123	56.650	115	53.49	8	50.59	53	57.68	122	9.778	218	72.73	83
Mai 10	39.482	156	83.27	162	56.535	82	53.57	3	50.06	48	56.46	170	9.560	168	71.90	114
20	39.326	120	81.65	196	56.453	45	53.60	1	49.58	42	54.76	213	9.392	110	70.76	141
30	39.206	80	79.69	227	56.408	6	53.59	3	49.16	33	52.63	251	9.282	48	69.35	162
Juni 9	39.126	37	77.42	251	56.402	33	53.56	6	48.83	25	50.12	283	9.234	16	67.73	178
19	39.089	7	74.91	268	56.435	72	53.50	7	48.58	16	47.29	308	9.250	81	65.95	189
29	39.096	51	72.23	280	56.507	110	53.43	8	48.42	7	44.21	324	9.331	144	64.06	194
Juli 9	39.147	93	69.43	282	56.617	145	53.35	10	48.35	3	40.97	330	9.475	204	62.12	196
19	39.240	134	66.61	276	56.762	178	53.25	12	48.38	12	37.67	327	9.679	260	60.16	194
29	39.374	173	63.85	261	56.940	207	53.13	16	48.50	22	34.40	315	9.939	312	58.22	186
Aug. 8	39.547	209	61.24	237	57.147	234	52.97	21	48.72	30	31.25	291	10.251	357	56.36	177
18	39.756	243	58.87	206	57.381	258	52.76	27	49.02	39	28.34	257	10.608	398	54.59	164
28	39.999	272	56.81	165	57.639	279	52.49	35	49.41	47	25.77	214	11.006	434	52.95	148
Sept. 7	40.271	297	55.16	117	57.918	297	52.14	43	49.88	52	23.63	163	11.440	465	51.47	130
17	40.568	318	53.99	65	58.215	312	51.71	52	50.40	57	22.00	104	11.905	490	50.17	109
27	40.886	333	53.34	8	58.527	325	51.19	60	50.97	61	20.96	41	12.395	508	49.08	86
Okt. 7	41.219	342	53.26	51	58.852	334	50.59	69	51.58	62	20.55	26	12.903	522	48.22	60
17	41.561	344	53.77	108	59.186	339	49.90	74	52.20	62	20.81	92	13.425	526	47.62	32
27	41.905	338	54.85	163	59.525	338	49.16	77	52.82	59	21.73	157	13.951	522	47.30	3
Nov. 6	42.243	323	56.48	213	59.863	331	48.39	76	53.41	55	23.30	216	14.473	509	47.27	28
16	42.566	300	58.61	256	60.194	317	47.63	72	53.96	49	25.46	269	14.982	484	47.55	60
26	42.866	268	61.17	290	60.511	295	46.91	65	54.45	40	28.15	313	15.466	446	48.15	92
Dez. 6	43.134	228	64.07	313	60.806	265	46.26	54	54.85	32	31.28	345	15.912	396	49.07	123
16	43.362	181	67.20	326	61.071	227	45.72	40	55.17	21	34.73	367	16.308	335	50.30	149
26	43.543	126	70.46	329	61.298	181	45.32	26	55.38	9	38.40	376	16.643	262	51.79	171
36	43.669		73.75		61.479		45.06		55.47		42.16		16.905		53.50	
Mittl. Ort	40.180		75.35		56.685		45.97		52.35		45.24		9.804		54.95	
sec δ, tg δ	1.252		−0.753		1.079		+0.406		2.650		−2.454		1.762		+1.450	

Scheinbare Sternörter 1930

Tag	282) ι Geminorum AR.		Dekl.		285) β Canis min. AR.		Dekl.		284) Grb 1308 AR.		Dekl.		286) ρ Geminorum AR.		Dekl.	
1930	7h 21m		+27° 56′		7h 23m		+8° 25′		7h 23m		+68° 36′		7h 24m		+31° 55′	
Jan. 1	23.764	162	24.06	21	22.068	143	59.77	102	39.60	30	43.28	247	37.616	172	35.55	45
11	23.926	109	24.27	35	22.211	93	58.75	87	39.90	17	45.75	258	37.788	114	36.00	61
20	24.035	47	24.62	48	22.304	42	57.88	70	40.07	4	48.33	261	37.902	56	36.61	72
30	24.082	6	25.10	57	22.346	8	57.18	53	40.11	9	50.94	252	37.958	3	37.33	80
Feb. 9	24.076	57	25.67	61	22.338	53	56.65	37	40.02	20	53.46	233	37.955	57	38.13	82
19	24.019	101	26.28	62	22.285	93	56.28	22	39.82	30	55.79	206	37.898	103	38.95	80
März 1	23.918	138	26.90	59	22.192	124	56.06	8	39.52	39	57.85	169	37.795	141	39.75	74
11	23.780	163	27.49	51	22.068	147	55.98	3	39.13	45	59.54	128	37.654	168	40.49	63
21	23.617	176	28.00	41	21.921	158	56.01	13	38.68	48	60.82	80	37.486	183	41.12	49
31	23.441	178	28.41	30	21.763	161	56.14	21	38.20	50	61.62	31	37.303	185	41.61	33
Apr. 10	23.263	169	28.71	17	21.602	152	56.35	29	37.70	48	61.93	18	37.118	177	41.94	17
20	23.094	151	28.88	5	21.450	135	56.64	37	37.22	44	61.75	66	36.941	158	42.11	1
30	22.943	123	28.93	6	21.315	113	57.01	43	36.78	39	61.09	110	36.783	131	42.12	15
Mai 10	22.820	90	28.87	16	21.202	83	57.44	50	36.39	31	59.99	149	36.652	97	41.97	28
20	22.730	53	28.71	25	21.119	50	57.94	55	36.08	23	58.50	184	36.555	58	41.69	40
30	22.677	13	28.46	32	21.069	15	58.49	61	35.85	14	56.66	212	36.497	17	41.29	50
Juni 9	22.664	28	28.14	37	21.054	21	59.10	66	35.71	4	54.54	233	36.480	26	40.79	58
19	22.692	70	27.77	41	21.075	57	59.76	68	35.67	6	52.21	248	36.506	68	40.21	63
29	22.762	109	27.36	44	21.132	92	60.44	69	35.73	16	49.73	257	36.574	109	39.58	67
Juli 9	22.871	146	26.92	47	21.224	125	61.13	68	35.89	25	47.16	258	36.683	148	38.91	70
19	23.017	181	26.45	48	21.349	155	61.81	64	36.14	34	44.58	254	36.831	184	38.21	72
29	23.198	212	25.97	51	21.504	184	62.45	55	36.48	43	42.04	244	37.015	217	37.49	74
Aug. 8	23.410	240	25.46	54	21.688	209	63.00	45	36.91	51	39.60	231	37.232	247	36.75	75
18	23.650	266	24.92	57	21.897	233	63.45	32	37.42	58	37.29	213	37.479	274	36.00	76
28	23.916	288	24.35	61	22.130	253	63.77	14	38.00	63	35.16	189	37.753	298	35.24	78
Sept. 7	24.204	308	23.74	64	22.383	272	63.91	6	38.63	68	33.27	163	38.051	319	34.46	78
17	24.512	325	23.10	68	22.655	287	63.85	27	39.31	73	31.64	132	38.370	336	33.68	78
27	24.837	339	22.42	71	22.942	300	63.58	50	40.04	76	30.32	99	38.706	351	32.90	78
Okt. 7	25.176	348	21.71	73	23.242	311	63.08	71	40.80	77	29.33	64	39.057	362	32.12	75
17	25.524	355	20.98	72	23.553	316	62.37	91	41.57	79	28.69	25	39.419	369	31.37	70
27	25.879	355	20.26	69	23.869	316	61.46	108	42.36	78	28.44	15	39.788	369	30.67	62
Nov. 6	26.234	348	19.57	63	24.185	311	60.38	121	43.14	75	28.59	57	40.157	363	30.05	52
16	26.582	335	18.94	53	24.496	298	59.17	130	43.89	72	29.16	98	40.520	350	29.53	40
26	26.917	312	18.41	41	24.794	278	57.87	133	44.61	65	30.14	138	40.870	326	29.13	23
Dez. 6	27.229	282	18.00	25	25.072	251	56.54	131	45.26	58	31.52	174	41.196	295	28.90	6
16	27.511	242	17.75	9	25.323	215	55.23	125	45.84	48	33.26	206	41.491	255	28.84	13
26	27.753	196	17.66	8	25.538	173	53.98	113	46.32	37	35.32	232	41.746	206	28.97	32
36	27.949		17.74		25.711		52.85		46.69		37.64		41.952		29.29	
Mittl. Ort	22.929		19.55		21.359		54.14		36.81		40.06		36.729		31.36	
sec δ, tg δ	1.132		+0.530		1.011		+0.148		2.742		+2.553		1.178		+0.623	

Tag	287) α Geminorum [1]) AR.		Dekl.		289) 25 Monocerotis AR.		Dekl.		291) α Canis min. [2]) AR.		Dekl.		292) 24 Lyncis AR.		Dekl.	
1930	7h 30m		+32° 2′		7h 33m		−3° 56′		7h 35m		+5° 24′		7h 37m		+58° 52′	
Jan. 1	9.005	177	42.53	43	48.611	141	65.85	178	39.078	147	26.47	127	7.510	260	36.51	194
11	9.182	120	42.96	59	48.752	92	67.63	164	39.225	98	25.20	111	7.770	171	38.45	210
20	[13] 9.302	61	43.55	71	[14] 48.844	43	69.27	145	[15] 39.323	47	24.09	93	[15] 7.941	77	40.55	218
30	9.363	3	44.26	80	48.887	6	70.72	123	39.370	3	23.16	74	8.018	15	42.73	217
Feb. 9	9.366	52	45.06	84	48.881	52	71.95	101	39.367	48	22.42	56	8.003	101	44.90	207
19	9.314	99	45.90	82	48.829	92	72.96	78	39.319	89	21.86	38	7.902	179	46.97	188
März 1	9.215	139	46.72	76	48.737	124	73.74	55	39.230	121	21.48	21	7.723	243	48.85	161
11	9.076	166	47.48	65	48.613	146	74.29	32	39.109	144	21.27	7	7.480	289	50.46	127
21	8.910	181	48.13	52	48.467	159	74.61	10	38.965	157	21.20	6	7.191	320	51.73	90
31	8.729	186	48.65	36	48.308	163	74.71	10	38.808	160	21.26	18	6.871	330	52.63	49
Apr. 10	8.543	178	49.01	20	48.145	156	74.61	30	38.648	153	21.44	29	6.541	323	53.12	6
20	8.365	161	49.21	3	47.989	143	74.31	49	38.495	139	21.73	38	6.218	300	53.18	34
30	8.204	134	49.24	13	47.846	121	73.82	67	38.356	116	22.11	47	5.918	262	52.84	74
Mai 10	8.070	101	49.11	27	47.725	94	73.15	83	38.240	89	22.58	55	5.656	214	52.10	110
20	7.969	64	48.84	40	47.631	64	72.32	98	38.151	57	23.13	63	5.442	155	51.00	141
30	7.905	22	48.44	50	47.567	31	71.34	112	38.094	24	23.76	70	5.287	91	49.59	167
Juni 9	7.883	20	47.94	59	47.536	4	70.22	122	38.070	12	24.46	75	5.196	23	47.92	188
19	7.903	62	47.35	65	47.540	38	69.00	130	38.082	47	25.21	78	5.173	45	46.04	205
29	7.965	102	46.70	70	47.578	72	67.70	133	38.129	81	25.99	79	5.218	114	43.99	214
Juli 9	8.067	142	46.00	73	47.650	105	66.37	134	38.210	113	26.78	77	5.332	180	41.85	219
19	8.209	177	45.27	76	47.755	135	65.03	129	38.323	144	27.55	73	5.512	242	39.66	221
29	8.386	211	44.51	78	47.890	164	63.74	119	38.467	172	28.28	64	5.754	301	37.45	216
Aug. 8	8.597	241	43.73	80	48.054	191	62.55	104	38.639	198	28.92	52	6.055	354	35.29	208
18	8.838	269	42.93	81	48.245	215	61.51	85	38.837	222	29.44	37	6.409	404	33.21	196
28	9.107	293	42.12	83	48.460	238	60.66	61	39.059	244	29.81	16	6.813	446	31.25	181
Sept. 7	9.400	315	41.29	84	48.698	258	60.05	32	39.303	263	29.97	5	7.259	484	29.44	163
17	9.715	333	40.45	84	48.956	275	59.73	0	39.566	280	29.92	29	7.743	516	27.81	140
27	10.048	349	39.61	84	49.231	290	59.73	33	39.846	294	29.63	54	8.259	543	26.41	115
Okt. 7	10.397	361	38.77	81	49.521	302	60.06	67	40.140	305	29.09	78	8.802	561	25.26	89
17	10.758	369	37.96	77	49.823	308	60.73	99	40.445	312	28.31	102	9.363	572	24.37	58
27	11.127	370	37.19	69	50.131	310	61.72	129	40.757	314	27.29	121	9.935	573	23.79	24
Nov. 6	11.497	365	36.50	58	50.441	306	63.01	155	41.071	310	26.08	139	10.508	564	23.55	11
16	11.862	352	35.92	44	50.747	294	64.56	174	41.381	298	24.69	149	11.072	540	23.66	47
26	12.214	331	35.48	28	51.041	274	66.30	187	41.679	279	23.20	155	11.612	504	24.13	84
Dez. 6	12.545	300	35.20	10	51.315	248	68.17	195	41.958	253	21.65	154	12.116	454	24.97	118
16	12.845	259	35.10	10	51.563	213	70.12	195	42.211	218	20.11	149	12.570	390	26.15	150
26	13.104	212	35.20	29	51.776	171	72.07	188	42.429	176	18.62	138	12.960	314	27.65	178
36	13.316		35.49		51.947		73.95		42.605		17.24		13.274		29.43	
Mittl. Ort	8.118		38.57		47.907		72.48		38.381		20.76		5.699		34.11	
sec δ, tg δ	1.180		+0.626		1.002		−0.069		1.004		+0.095		1.935		+1.656	

[1]) A. R. der Mitte; Dekl. des folgenden helleren Sterns.

[2]) Ort des hellen Sterns; die jährliche Parallaxe (0.″33) ist bereits berücksichtigt.

Scheinbare Sternörter 1930

Tag	294) κ Geminorum AR.		294) κ Geminorum Dekl.		295) β Geminorum AR.		295) β Geminorum Dekl.	
1930	7h 40m		+24° 33′		7h 41m		+28° 11′	
Jan. 1	14.278	177	66.41	8	2.974	182	51.98	14
11	14.455	124	66.33	9	3.156	127	52.12	32
20	14.579	69	66.42	25	3.283	70	52.44	47
30	14.648	14	66.67	37	3.353	14	52.91	59
Feb. 9	14.662	38	67.04	47	3.367	39	53.50	66
19	14.624	84	67.51	52	3.328	88	54.16	68
März 1	14.540	121	68.03	53	3.240	126	54.84	67
11	14.419	148	68.56	51	3.114	154	55.51	61
21	14.271	165	69.07	45	2.960	171	56.12	52
31	14.106	169	69.52	37	2.789	177	56.64	40
Apr. 10	13.937	165	69.89	28	2.612	172	57.04	28
20	13.772	150	70.17	19	2.440	156	57.32	14
30	13.622	127	70.36	9	2.284	133	57.46	1
Mai 10	13.495	97	70.45	1	2.151	103	57.47	10
20	13.398	63	70.46	7	2.048	69	57.37	21
30	13.335	27	70.39	14	1.979	30	57.16	30
Juni 9	13.308	12	70.25	19	1.949	10	56.86	38
19	13.320	50	70.06	24	1.959	49	56.48	44
29	13.370	88	69.82	28	2.008	87	56.04	49
Juli 9	13.458	123	69.54	32	2.095	125	55.55	54
19	13.581	156	69.22	37	2.220	159	55.01	59
29	13.737	188	68.85	42	2.379	192	54.42	62
Aug. 8	13.925	217	68.43	47	2.571	221	53.80	67
18	14.142	242	67.96	54	2.792	249	53.13	71
28	14.384	267	67.42	60	3.041	273	52.42	76
Sept. 7	14.651	288	66.82	68	3.314	295	51.66	81
17	14.939	307	66.14	76	3.609	315	50.85	85
27	15.246	324	65.38	82	3.924	332	50.00	89
Okt. 7	15.570	337	64.56	88	4.256	345	49.11	90
17	15.907	345	63.68	91	4.601	354	48.21	89
27	16.252	349	62.77	91	4.955	359	47.32	86
Nov. 6	16.601	347	61.86	88	5.314	356	46.46	79
16	16.948	336	60.98	81	5.670	345	45.67	68
26	17.284	317	60.17	70	6.015	325	44.99	55
Dez. 6	17.601	290	59.47	56	6.340	298	44.44	38
16	17.891	254	58.91	40	6.638	261	44.06	19
26	18.145	209	58.51	22	6.899	215	43.87	0
36	18.354		58.29		7.114		43.87	
Mittl. Ort	13.489		62.30		2.144		48.18	
sec δ, tg δ	1.099		+0.457		1.135		+0.536	

Tag	297) ζ Volantis AR.		297) ζ Volantis Dekl.		296) π Geminorum AR.		296) π Geminorum Dekl.	
1930	7h 42m		−72° 25′		7h 42m		+33° 35′	
Jan. 1	45.23	8	64.96	377	60.762	194	23.75	47
11	45.31	6	68.73	375	60.956	137	24.22	65
20	45.25	20	72.48	362	61.093	76	24.87	79
30	45.05	34	76.10	340	61.169	17	25.66	90
Feb. 9	44.71	45	79.50	309	61.186	40	26.56	94
19	44.26	55	82.59	273	61.146	90	27.50	93
März 1	43.71	64	85.32	230	61.056	131	28.43	87
11	43.07	70	87.62	182	60.925	162	29.30	77
21	42.37	75	89.44	132	60.763	180	30.07	62
31	41.62	76	90.76	80	60.583	187	30.69	46
Apr. 10	40.86	77	91.56	26	60.396	182	31.15	27
20	40.09	75	91.82	27	60.214	167	31.42	9
30	39.34	71	91.55	79	60.047	142	31.51	10
Mai 10	38.63	65	90.76	130	59.905	111	31.41	27
20	37.98	59	89.46	176	59.794	75	31.14	41
30	37.39	51	87.70	219	59.719	34	30.73	54
Juni 9	36.88	41	85.51	256	59.685	7	30.19	66
19	36.47	30	82.95	286	59.692	49	29.53	74
29	36.17	19	80.09	308	59.741	90	28.79	81
Juli 9	35.98	7	77.01	322	59.831	129	27.98	86
19	35.91	5	73.79	326	59.960	166	27.12	90
29	35.96	16	70.53	319	60.126	201	26.22	93
Aug. 8	36.12	29	67.34	303	60.327	232	25.29	96
18	36.41	40	64.31	275	60.559	261	24.33	98
28	36.81	51	61.56	238	60.820	288	23.35	99
Sept. 7	37.32	59	59.18	192	61.108	311	22.36	100
17	37.91	66	57.26	137	61.419	332	21.36	100
27	38.57	73	55.89	76	61.751	350	20.36	97
Okt. 7	39.30	75	55.13	11	62.101	365	19.39	94
17	40.05	76	55.02	56	62.466	375	18.45	88
27	40.81	75	55.58	122	62.841	378	17.57	78
Nov. 6	41.56	70	56.80	185	63.219	376	16.79	66
16	42.26	63	58.65	242	63.595	365	16.13	51
26	42.89	55	61.07	291	63.960	345	15.62	32
Dez. 6	43.44	43	63.98	330	64.305	315	15.30	11
16	43.87	30	67.28	358	64.620	276	15.19	10
26	44.17	17	70.86	374	64.896	229	15.29	32
36	44.34		74.60		65.125		15.61	
Mittl. Ort	41.36		77.81		59.854		20.43	
sec δ, tg δ	3.314		−3.160		1.200		+0.664	

Tag	300) Grb 1374 AR.	Δ	Dekl.	Δ	303) χ Argus AR.	Δ	Dekl.	Δ	305) χ Geminorum AR.	Δ	Dekl.	Δ	306) ζ Argus AR.	Δ	Dekl.	Δ
1930	7h 51m		+74° 6′		7h 54m		−52° 47′		7h 59m		+27° 59′		8h 1m		−39° 47′	
Jan. 1	55.12	46	28.78	254	61.534	131	25.45	367	14.178	202	34.24	5	8.405	146	67.16	341
11	55.58	29	31.32	273	61.665	57	29.12	366	14.380	148	34.29	25	8.551	86	70.57	335
20*)	55.87	13	34.05	282	61.722	18	32.78	351	14.528	92	34.54	43	8.637	25	73.92	320
30	56.00	4	36.87	279	61.704	90	36.29	329	14.620	34	34.97	57	8.662	34	77.12	298
Feb. 9	55.96	21	39.66	265	61.614	156	39.58	298	14.654	21	35.54	66	8.628	90	80.10	268
19	55.75	35	42.31	240	61.458	214	42.56	262	14.633	69	36.20	72	8.538	139	82.78	233
März 1	55.40	47	44.71	207	61.244	262	45.18	219	14.564	111	36.92	72	8.399	180	85.11	194
11	54.93	57	46.78	165	60.982	299	47.37	173	14.453	142	37.64	69	8.219	211	87.05	151
21	54.36	63	48.43	116	60.683	323	49.10	125	14.311	162	38.33	60	8.008	231	88.56	107
31	53.73	67	49.59	65	60.360	335	50.35	74	14.149	172	38.93	50	7.777	242	89.63	61
Apr. 10	53.06	67	50.24	12	60.025	335	51.09	23	13.977	168	39.43	37	7.535	241	90.24	15
20	52.39	64	50.36	41	59.690	324	51.32	28	13.809	158	39.80	24	7.294	232	90.39	30
30	51.75	58	49.95	91	59.366	305	51.04	78	13.651	138	40.04	11	7.062	215	90.09	75
Mai 10	51.17	50	49.04	138	59.061	275	50.26	125	13.513	110	40.15	3	6.847	191	89.34	118
20	50.67	41	47.66	178	58.786	238	49.01	170	13.403	79	40.12	15	6.656	160	88.16	156
30	50.26	30	45.88	214	58.548	195	47.31	210	13.324	43	39.97	26	6.496	126	86.60	192
Juni 9	49.96	17	43.74	243	58.353	148	45.21	244	13.281	5	39.71	35	6.370	88	84.68	222
19	49.79	5	41.31	264	58.205	96	42.77	273	13.276	32	39.36	44	6.282	48	82.46	247
29	49.74	8	38.67	279	58.109	42	40.04	293	13.308	70	38.92	51	6.234	6	79.99	264
Juli 9	49.82	21	35.88	287	58.067	13	37.11	306	13.378	106	38.41	58	6.228	36	77.35	275
19	50.03	34	33.01	288	58.080	69	34.05	309	13.484	141	37.83	63	6.264	79	74.60	276
29	50.37	45	30.13	284	58.149	126	30.96	302	13.625	174	37.20	70	6.343	121	71.84	270
Aug. 8	50.82	56	27.29	273	58.275	180	27.94	286	13.799	204	36.50	75	6.464	161	69.14	253
18	51.38	66	24.56	257	58.455	232	25.08	259	14.003	232	35.75	82	6.625	201	66.61	228
28	52.04	75	21.99	236	58.687	281	22.49	222	14.235	259	34.93	88	6.826	238	64.33	193
Sept. 7	52.79	83	19.63	210	58.968	325	20.27	177	14.494	283	34.05	94	7.064	271	62.40	151
17	53.62	90	17.53	179	59.293	364	18.50	124	14.777	305	33.11	99	7.335	301	60.89	102
27	54.52	96	15.74	144	59.657	394	17.26	66	15.082	325	32.12	103	7.636	327	59.87	46
Okt. 7	55.48	99	14.30	106	60.051	415	16.60	2	15.407	341	31.09	106	7.963	346	59.41	12
17	56.47	101	13.24	64	60.466	428	16.58	64	15.748	354	30.03	105	8.309	359	59.53	71
27	57.48	102	12.60	20	60.894	427	17.22	127	16.102	360	28.98	102	8.668	362	60.24	130
Nov. 6	58.50	101	12.40	27	61.321	416	18.49	187	16.462	361	27.96	96	9.030	356	61.54	186
16	59.51	96	12.67	74	61.737	391	20.36	242	16.823	354	27.00	84	9.386	342	63.40	234
26	60.47	89	13.41	120	62.128	353	22.78	289	17.177	338	26.16	70	9.728	316	65.74	275
Dez. 6	61.36	80	14.61	163	62.481	305	25.67	326	17.515	313	25.46	53	10.044	280	68.49	308
16	62.16	69	16.24	203	62.786	245	28.93	352	17.828	277	24.93	32	10.324	236	71.57	330
26	62.85	56	18.27	236	63.031	178	32.45	367	18.105	234	24.61	11	10.560	184	74.87	341
36	63.41		20.63		63.209		36.12		18.339		24.50		10.744		78.28	
Mittl. Ort	51.16		27.76		60.003		37.81		13.368		31.11		7.366		78.56	
sec δ, tg δ	3.652		+3.512		1.654		−1.317		1.132		+0.531		1.302		−0.833	

*) Bei Stern 305) und 306) lies Jan. 21

Scheinbare Sternörter 1930

Tag	307) 27 Lyncis				308) ι Navis				309) γ Argus				311) 20 Navis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	8h 3m		+51° 42′		8h 4m		−24° 5′		8h 7m		−47° 7′		8h 10m		−15° 34′	
Jan. 1	13.483	269	37.49	142	34.505	157	56.01	286	23.699	153	34.16	359	7.616	168	26.18	248
11	13.752	195	38.91	164	34.662	106	58.87	277	23.852	86	37.75	356	7.784	119	28.66	238
21	[22] 13.947	116	40.55	180	[22] 34.768	53	61.64	260	23.938	18	41.31	345	[23] 7.903	68	31.04	220
30	14.063	37	42.35	188	34.821	0	64.24	237	[23] 23.956	47	44.76	323	7.971	17	33.24	199
Feb. 9	14.100	39	44.23	187	34.821	49	66.61	210	23.909	110	47.99	295	7.988	31	35.23	173
19	14.061	108	46.10	177	34.772	94	68.71	178	23.799	164	50.94	259	7.957	75	36.96	144
März 1	13.953	167	47.87	161	34.678	130	70.49	144	23.635	208	53.53	220	7.882	111	38.40	114
11	13.786	213	49.48	137	34.548	158	71.93	109	23.427	244	55.73	175	7.771	138	39.54	84
21	13.573	244	50.85	107	34.390	176	73.02	73	23.183	269	57.48	129	7.633	157	40.38	53
31	13.329	259	51.92	75	34.214	185	73.75	35	22.914	281	58.77	81	7.476	167	40.91	23
Apr. 10	13.070	260	52.67	38	34.029	184	74.10	1	22.633	284	59.58	32	7.309	166	41.14	7
20	12.810	247	53.05	2	33.845	176	74.09	36	22.349	276	59.90	17	7.143	158	41.07	36
30	12.563	222	53.07	33	33.669	160	73.73	71	22.073	259	59.73	65	6.985	143	40.71	64
Mai 10	12.341	187	52.74	67	33.509	137	73.02	103	21.814	235	59.08	111	6.842	121	40.07	90
20	12.154	141	52.07	97	33.372	111	71.99	133	21.579	203	57.97	154	6.721	97	39.17	113
30	12.013	93	51.10	124	33.261	80	70.66	160	21.376	167	56.43	193	6.624	67	38.04	134
Juni 9	11.920	40	49.86	147	33.181	47	69.06	182	21.209	126	54.50	228	6.557	37	36.70	152
19	11.880	14	48.39	166	33.134	14	67.24	201	21.083	82	52.22	255	6.520	4	35.18	167
29	11.894	69	46.73	180	33.120	22	65.23	213	21.001	35	49.67	277	6.516	29	33.51	176
Juli 9	11.963	123	44.93	190	33.142	56	63.10	219	20.966	13	46.90	290	6.545	60	31.75	180
19	12.086	174	43.03	196	33.198	91	60.91	219	20.979	61	44.00	294	6.605	93	29.95	178
29	12.260	222	41.07	199	33.289	124	58.72	210	21.040	110	41.06	290	6.698	124	28.17	169
Aug. 8	12.482	268	39.08	198	33.413	156	56.62	195	21.150	158	38.16	274	6.822	154	26.48	156
18	12.750	311	37.10	193	33.569	188	54.67	172	21.308	204	35.42	250	6.976	182	24.92	134
28	13.061	349	35.17	185	33.757	217	52.95	141	21.512	248	32.92	216	7.158	210	23.58	107
Sept. 7	13.410	385	33.32	175	33.974	244	51.54	103	21.760	288	30.76	173	7.368	235	22.51	73
17	13.795	416	31.57	162	34.218	269	50.51	61	22.048	324	29.03	123	7.603	259	21.78	36
27	14.211	444	29.95	144	34.487	290	49.90	14	22.372	353	27.80	66	7.862	280	21.42	5
Okt. 7	14.655	466	28.51	124	34.777	308	49.76	35	22.725	377	27.14	5	8.142	298	21.47	49
17	15.121	483	27.27	101	35.085	320	50.11	85	23.102	391	27.09	57	8.440	310	21.96	92
27	15.604	491	26.26	73	35.405	326	50.96	134	23.493	396	27.66	119	8.750	318	22.88	133
Nov. 6	16.095	490	25.53	43	35.731	324	52.30	178	23.889	389	28.85	179	9.068	319	24.21	170
16	16.585	480	25.10	11	36.055	315	54.08	217	24.278	372	30.64	232	9.387	312	25.91	203
26	17.065	456	24.99	24	36.370	296	56.25	248	24.650	343	32.96	279	9.699	296	27.94	227
Dez. 6	17.521	420	25.23	58	36.666	269	58.73	271	24.993	303	35.75	315	9.995	271	30.21	245
16	17.941	372	25.81	92	36.935	232	61.44	285	25.296	252	38.90	342	10.266	238	32.66	254
26	18.313	312	26.73	122	37.167	189	64.29	290	25.548	194	42.32	357	10.504	198	35.20	255
36	18.625		27.95		37.356		67.19		25.742		45.89		10.702		37.75	
Mittl. Ort	12.074		36.52		33.744		65.62		22.480		46.74		6.945		34.76	
sec δ, tg δ	1.614		+1.267		1.096		−0.447		1.470		−1.077		1.038		−0.279	

Tag	310) Br. 1147 AR.		Dekl.		312) β Cancri AR.		Dekl.		314) 31 Lyncis AR.		Dekl.		315) ε Argus AR.		Dekl.	
1930	8h 10m		+75° 58′		8h 12m		+9° 24′		8h 18m		+43° 24′		8h 21m		−59° 16′	
Jan. 1	52.30	57	23.62	249	43.898	190	13.85	114	4.144	258	51.31	87	6.505	179	46.50	375
11	52.87	39	26.11	273	44.088	143	12.71	97	4.402	195	52.18	111	6.684	94	50.25	379
21	53.26	20	28.84	286	44.231	91	11.74	77	4.597	127	53.29	131	6.778	7	54.04	373
30	53.46	2	31.70	289	44.322	40	10.97	57	4.724	59	54.60	144	6.785	78	57.77	357
Feb. 9	53.48	17	34.59	278	44.362	10	10.40	38	4.783	8	56.04	150	6.707	157	61.34	332
19	53.31	34	37.37	257	44.352	54	10.02	21	4.775	69	57.54	149	6.550	228	64.66	299
März 1	52.97	49	39.94	227	44.298	91	9.81	6	4.706	122	59.03	141	6.322	288	67.65	260
11	52.48	61	42.21	186	44.207	121	9.75	7	4.584	163	60.44	126	6.034	336	70.25	217
21	51.87	69	44.07	140	44.086	140	9.82	18	4.421	193	61.70	105	5.698	371	72.42	170
31	51.18	75	45.47	88	43.946	149	10.00	26	4.228	209	62.75	80	5.327	393	74.12	119
Apr. 10	50.43	76	46.35	35	43.797	150	10.26	33	4.019	212	63.55	53	4.934	401	75.31	68
20	49.67	74	46.70	20	43.647	141	10.59	38	3.807	204	64.08	24	4.533	398	75.99	15
30	48.93	70	46.50	72	43.506	126	10.97	42	3.603	184	64.32	6	4.135	384	76.14	36
Mai 10	48.23	62	45.78	122	43.380	104	11.39	46	3.419	156	64.26	33	3.751	358	75.78	88
20	47.61	52	44.56	167	43.276	77	11.85	48	3.263	122	63.93	60	3.393	323	74.90	136
30	47.09	40	42.89	206	43.199	48	12.33	51	3.141	82	63.33	83	3.070	282	73.54	181
Juni 9	46.69	27	40.83	238	43.151	16	12.84	52	3.059	38	62.50	104	2.788	232	71.73	221
19	46.42	14	38.45	265	43.135	16	13.36	53	3.021	6	61.46	122	2.556	177	69.52	255
29	46.28	1	35.80	284	43.151	48	13.89	51	3.027	51	60.24	137	2.379	116	66.97	282
Juli 9	46.29	15	32.96	296	43.199	80	14.40	48	3.078	95	58.87	149	2.263	54	64.15	301
19	46.44	29	30.00	301	43.279	110	14.88	42	3.173	137	57.38	157	2.209	13	61.14	311
29	46.73	42	26.99	301	43.389	139	15.30	33	3.310	179	55.81	164	2.222	80	58.03	311
Aug. 8	47.15	55	23.98	293	43.528	167	15.63	22	3.489	217	54.17	167	2.302	148	54.92	301
18	47.70	67	21.05	280	43.695	193	15.85	8	3.706	254	52.50	169	2.450	214	51.91	281
28	48.37	78	18.25	261	43.888	219	15.93	9	3.960	288	50.81	168	2.664	278	49.10	249
Sept. 7	49.15	88	15.64	237	44.107	242	15.84	28	4.248	320	49.13	164	2.942	336	46.61	209
17	50.03	96	13.27	207	44.349	264	15.56	49	4.568	349	47.49	158	3.278	389	44.52	158
27	50.99	104	11.20	173	44.613	285	15.07	71	4.917	375	45.91	150	3.667	433	42.94	102
Okt. 7	52.03	109	9.47	136	44.898	301	14.36	91	5.292	398	44.41	138	4.100	466	41.92	39
17	53.12	112	8.11	92	45.199	315	13.45	111	5.690	416	43.03	123	4.566	488	41.53	26
27	54.24	114	7.19	48	45.514	325	12.34	128	6.106	428	41.80	104	5.054	496	41.79	92
Nov. 6	55.38	113	6.71	1	45.839	326	11.06	141	6.534	431	40.76	81	5.550	488	42.71	157
16	56.51	110	6.72	50	46.165	323	9.65	148	6.965	426	39.95	55	6.038	465	44.28	216
26	57.61	103	7.22	100	46.488	309	8.17	152	7.391	410	39.40	26	6.503	427	46.44	269
Dez. 6	58.64	94	8.22	147	46.797	288	6.65	148	7.801	382	39.14	5	6.930	374	49.13	313
16	59.58	82	9.69	190	47.085	258	5.17	139	8.183	344	39.19	36	7.304	308	52.26	346
26	60.40	67	11.59	227	47.343	219	3.78	127	8.527	294	39.55	66	7.612	232	55.72	370
36	61.07		13.86		47.562		2.51		8.821		40.21		7.844		59.42	
Mittl. Ort	47.73		24.13		43.258		8.84		3.048		50.60		4.793		61.26	
sec δ, tg δ	4.126		+4.003		1.014		+0.166		1.377		+0.946		1.958		−1.683	

Scheinbare Sternörter 1930

Tag	316) Br. 1197				318) ϑ Chamael.			
	AR.		Dekl.		AR.		Dekl.	
1930	8h 22m		−3° 40′		8h 22m		−77° 15′	
Jan. 1	10.432	188	30.10	191	50.91	25	17.17	371
11	10.620	140	32.01	177	51.16	5	20.88	381
21	[26] 10.760	90	33.78	159	[27] 51.21	14	24.69	379
30	10.850	40	35.37	137	51.07	32	28.48	367
Feb. 9	10.890	8	36.74	114	50.75	48	32.15	347
19	10.882	52	37.88	91	50.27	64	35.62	318
März 1	10.830	90	38.79	67	49.63	77	38.80	283
11	10.740	118	39.46	44	48.86	87	41.63	242
21	10.622	138	39.90	22	47.99	95	44.05	196
31	10.484	149	40.12	2	47.04	101	46.01	148
Apr. 10	10.335	151	40.14	17	46.03	104	47.49	95
20	10.184	144	39.97	36	44.99	104	48.44	43
30	10.040	131	39.61	52	43.95	103	48.87	11
Mai 10	9.909	111	39.09	68	42.92	98	48.76	64
20	9.798	87	38.41	82	41.94	91	48.12	115
30	9.711	60	37.59	95	41.03	82	46.97	162
Juni 9	9.651	31	36.64	104	40.21	72	45.35	207
19	9.620	0	35.60	112	39.49	59	43.28	244
29	9.620	31	34.48	116	38.90	45	40.84	276
Juli 9	9.651	61	33.32	117	38.45	30	38.08	299
19	9.712	91	32.15	113	38.15	13	35.09	314
29	9.803	120	31.02	105	38.02	3	31.95	319
Aug. 8	9.923	148	29.97	92	38.05	20	28.76	312
18	10.071	176	29.05	74	38.25	36	25.64	296
28	10.247	202	28.31	52	38.61	53	22.68	268
Sept. 7	10.449	227	27.79	26	39.14	67	20.00	231
17	10.676	250	27.53	5	39.81	79	17.69	183
27	10.926	272	27.58	37	40.60	90	15.86	128
Okt. 7	11.198	291	27.95	70	41.50	97	14.58	67
17	11.489	306	28.65	103	42.47	101	13.91	2
27	11.795	316	29.68	133	43.48	103	13.89	65
Nov. 6	12.111	319	31.01	159	44.51	99	14.54	131
16	12.430	316	32.60	181	45.50	93	15.85	192
26	12.746	304	34.41	196	46.43	82	17.77	249
Dez. 6	13.050	283	36.37	204	47.25	69	20.26	297
16	13.333	253	38.41	206	47.94	54	23.23	334
26	13.586	215	40.47	200	48.48	36	26.57	362
36	13.801		42.47		48.84		30.19	
Mittl. Ort	9.836		37.02		46.18		33.51	
sec δ, tg δ	1.002		−0.064		4.534		−4.423	

Tag	317) o Ursae maj.				320) Grb 1450			
	AR.		Dekl.		AR.		Dekl.	
1930	8h 24m		+60° 56′		8h 28m		+38° 15′	
Jan. 1	29.85	36	73.10	175	23.269	254	28.92	50
11	30.21	26	74.85	202	23.523	197	29.42	76
21	[27] 30.47	17	76.87	221	[28] 23.720	134	30.18	98
30	30.64	7	79.08	232	23.854	70	31.16	114
Feb. 9	30.71	2	81.40	231	23.924	7	32.30	125
19	30.69	12	83.71	222	23.931	50	33.55	128
März 1	30.57	20	85.93	203	23.881	101	34.83	125
11	30.37	26	87.96	175	23.780	140	36.08	116
21	30.11	30	89.71	141	23.640	170	37.24	101
31	29.81	34	91.12	101	23.470	186	38.25	81
Apr. 10	29.47	34	92.13	59	23.284	191	39.06	59
20	29.13	34	92.72	14	23.093	184	39.65	36
30	28.79	31	92.86	30	22.909	169	40.01	10
Mai 10	28.48	28	92.56	71	22.740	145	40.11	14
20	28.20	23	91.85	111	22.595	114	39.97	37
30	27.97	17	90.74	147	22.481	79	39.60	58
Juni 9	27.80	11	89.27	176	22.402	40	39.02	78
19	27.69	4	87.51	201	22.362	1	38.24	94
29	27.65	2	85.50	222	22.361	39	37.30	109
Juli 9	27.67	9	83.28	237	22.400	80	36.21	122
19	27.76	16	80.91	247	22.480	118	34.99	131
29	27.92	22	78.44	251	22.598	156	33.68	140
Aug. 8	28.14	29	75.93	251	22.754	191	32.28	146
18	28.43	34	73.42	247	22.945	226	30.82	151
28	28.77	39	70.95	237	23.171	258	29.31	154
Sept. 7	29.16	45	68.58	223	23.429	288	27.77	155
17	29.61	49	66.35	205	23.717	317	26.22	154
27	30.10	53	64.30	183	24.034	343	24.68	151
Okt. 7	30.63	56	62.47	157	24.377	367	23.17	144
17	31.19	59	60.90	126	24.744	385	21.73	135
27	31.78	61	59.64	90	25.129	399	20.38	121
Nov. 6	32.39	61	58.74	52	25.528	404	19.17	103
16	33.00	60	58.22	12	25.932	402	18.14	81
26	33.60	57	58.10	31	26.334	390	17.33	57
Dez. 6	34.17	53	58.41	73	26.724	366	16.76	29
16	34.70	48	59.14	114	27.090	332	16.47	1
26	35.18	41	60.28	151	27.422	288	16.48	30
36	35.59		61.79		27.710		16.78	
Mittl. Ort	27.90		74.15		22.321		28.23	
sec δ, tg δ	2.060		+1.801		1.273		+0.789	

Tag	321) η Cancri AR.		Dekl.		326) δ Cancri AR.		Dekl.	
1930	8h 28m		+20° 40′		8h 40m		+18° 24′	
Jan. 1	40.538	219	51.53	55	43.247	227	48.62	73
11	40.757	170	50.98	31	43.474	180	47.89	52
21	40.927	117	50.67	11	43.654	127	47.37	29
30*)	41.044	62	50.56	9	43.781	73	47.08	7
Feb. 9	41.106	9	50.65	26	43.854	20	47.01	10
19	41.115	40	50.91	39	43.874	27	47.11	26
März 1	41.075	81	51.30	47	43.847	71	47.37	38
11	40.994	115	51.77	53	43.776	104	47.75	46
21	40.879	138	52.30	53	43.672	129	48.21	49
31	40.741	151	52.83	51	43.543	144	48.70	50
Apr. 10	40.590	154	53.34	47	43.399	149	49.20	47
20	40.436	148	53.81	40	43.250	145	49.67	44
30	40.288	134	54.21	33	43.105	133	50.11	38
Mai 10	40.154	114	54.54	25	42.972	115	50.49	32
20	40.040	88	54.79	17	42.857	92	50.81	26
30	39.952	59	54.96	9	42.765	65	51.07	18
Juni 9	39.893	27	55.05	2	42.700	35	51.25	12
19	39.866	6	55.07	5	42.665	4	51.37	5
29	39.872	39	55.02	13	42.661	28	51.42	2
Juli 9	39.911	72	54.89	21	42.689	59	51.40	10
19	39.983	103	54.68	29	42.748	89	51.30	19
29	40.086	134	54.39	38	42.837	120	51.11	29
Aug. 8	40.220	163	54.01	48	42.957	149	50.82	40
18	40.383	192	53.53	59	43.106	177	50.42	52
28	40.575	219	52.94	71	43.283	205	49.90	66
Sept. 7	40.794	245	52.23	84	43.488	232	49.24	80
17	41.039	270	51.39	96	43.720	257	48.44	95
27	41.309	292	50.43	108	43.977	281	47.49	109
Okt. 7	41.601	313	49.35	118	44.258	304	46.40	122
17	41.914	330	48.17	127	44.562	322	45.18	133
27	42.244	341	46.90	132	44.884	336	43.85	140
Nov. 6	42.585	348	45.58	132	45.220	344	42.45	144
16	42.933	346	44.26	129	45.564	344	41.01	143
26	43.279	335	42.97	120	45.908	336	39.58	136
Dez. 6	43.614	316	41.77	107	46.244	319	38.22	125
16	43.930	286	40.70	90	46.563	291	36.97	109
26	44.216	249	39.80	70	46.854	255	35.88	89
36	44.465		39.10		47.109		34.99	
Mittl. Ort	39.857		48.51		42.615		45.62	
sec δ, tg δ	1.069		+0.377		1.054		+0.333	

Tag	327) α Pyxidis AR.		Dekl.		328) ι Cancri AR.		Dekl.	
1930	8h 40m		−32° 55′		8h 42m		+29° 0′	
Jan. 1	47.433	195	47.24	321	28.715	247	62.96	12
11	47.628	142	50.45	319	28.962	196	62.84	13
21	47.770	85	53.64	309	29.158	139	62.97	38
30*)	47.855	28	56.73	291	29.297	82	63.35	58
Feb. 9	47.883	25	59.64	267	29.379	25	63.93	74
19	47.858	75	62.31	237	29.404	29	64.67	84
März 1	47.783	118	64.68	202	29.375	75	65.51	90
11	47.665	152	66.70	165	29.300	112	66.41	89
21	47.513	178	68.35	126	29.188	140	67.30	84
31	47.335	193	69.61	85	29.048	158	68.14	74
Apr. 10	47.142	199	70.46	44	28.890	163	68.88	62
20	46.943	197	70.90	3	28.727	160	69.50	47
30	46.746	188	70.93	37	28.567	148	69.97	30
Mai 10	46.558	171	70.56	77	28.419	129	70.27	14
20	46.387	149	69.79	113	28.290	103	70.41	2
30	46.238	123	68.66	148	28.187	74	70.39	18
Juni 9	46.115	94	67.18	177	28.113	42	70.21	32
19	46.021	62	65.41	203	28.071	8	69.89	46
29	45.959	28	63.38	223	28.063	27	69.43	59
Juli 9	45.931	8	61.15	235	28.090	61	68.84	70
19	45.939	44	58.80	241	28.151	94	68.14	81
29	45.983	81	56.39	240	28.245	128	67.33	91
Aug. 8	46.064	118	53.99	228	28.373	160	66.42	101
18	46.182	154	51.71	210	28.533	190	65.41	111
28	46.336	191	49.61	183	28.723	220	64.30	120
Sept. 7	46.527	225	47.78	146	28.943	249	63.10	127
17	46.752	258	46.32	104	29.192	277	61.83	135
27	47.010	287	45.28	55	29.469	303	60.48	140
Okt. 7	47.297	313	44.73	2	29.772	327	59.08	143
17	47.610	333	44.71	52	30.099	346	57.65	144
27	47.943	346	45.23	107	30.445	361	56.21	139
Nov. 6	48.289	351	46.30	160	30.806	370	54.82	132
16	48.640	346	47.90	207	31.176	371	53.50	119
26	48.986	330	49.97	249	31.547	362	52.31	102
Dez. 6	49.316	307	52.46	282	31.909	344	51.29	81
16	49.623	271	55.28	306	32.253	315	50.48	57
26	49.894	227	58.34	319	32.568	276	49.91	31
36	50.121		61.53		32.844		49.60	
Mittl. Ort	46.717		59.45		27.965		61.70	
sec δ, tg δ	1.191		−0.648		1.144		+0.555	

*) Bei Stern 326), 327) und 328) lies Jan. 31

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Tag	330) δ Argus				334) ζ Hydrae				336) c Carinae				335) ι Ursae maj.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	$8^h\ 42^m$		−54° 26′		$8^h\ 51^m$		+6° 12′		$8^h\ 53^m$		−60° 22′		$8^h\ 54^m$		+48° 18′	
Jan. 1	47.516	213	50.16	368	42.252	222	51.70	147	29.25	25	18.45	369	26.681	319	61.59	87
11	47.729	138	53.84	375	42.474	177	50.23	128	29.50	16	22.14	382	27.000	254	62.46	120
21	47.867	61	57.59	372	42.651	128	48.95	108	29.66	7	25.96	382	27.254	185	63.66	146
31	1 47.928	15	61.31	359	42.779	76	47.87	86	29.73	2	29.78	373	27.439	110	65.12	167
Feb. 9	47.913	88	64.90	337	3 42.855	26	47.01	63	3 29.71	10	33.51	355	4 27.549	36	66.79	178
19	47.825	153	68.27	308	42.881	21	46.38	43	29.61	18	37.06	329	27.585	33	68.57	182
März 1	47.672	211	71.35	272	42.860	61	45.95	23	29.43	24	40.35	295	27.552	95	70.39	177
11	47.461	258	74.07	231	42.799	93	45.72	6	29.19	30	43.30	255	27.457	147	72.16	164
21	47.203	293	76.38	187	42.706	118	45.66	8	28.89	35	45.85	212	27.310	188	73.80	143
31	46.910	316	78.25	139	42.588	134	45.74	20	28.54	37	47.97	164	27.122	214	75.23	117
Apr. 10	46.594	329	79.64	89	42.454	140	45.94	31	28.17	39	49.61	114	26.908	228	76.40	87
20	46.265	331	80.53	38	42.314	138	46.25	39	27.78	40	50.75	63	26.680	228	77.27	53
30	45.934	322	80.91	13	42.176	129	46.64	45	27.38	40	51.38	10	26.452	217	77.80	19
Mai 10	45.612	304	80.78	63	42.047	113	47.09	51	26.98	38	51.48	43	26.235	196	77.99	15
20	45.308	278	80.15	110	41.934	93	47.60	55	26.60	35	51.05	93	26.039	166	77.84	49
30	45.030	245	79.05	156	41.841	69	48.15	59	26.25	31	50.12	141	25.873	130	77.35	80
Juni 9	44.785	206	77.49	197	41.772	43	48.74	61	25.94	28	48.71	184	25.743	90	76.55	109
19	44.579	161	75.52	232	41.729	15	49.35	61	25.66	23	46.87	224	25.653	46	75.46	135
29	44.418	113	73.20	262	41.714	13	49.96	59	25.43	17	44.63	257	25.607	1	74.11	156
Juli 9	44.305	60	70.58	283	41.727	42	50.55	56	25.26	11	42.06	282	25.606	44	72.55	176
19	44.245	5	67.75	296	41.769	71	51.11	50	25.15	5	39.24	299	25.650	90	70.79	190
29	44.240	53	64.79	300	41.840	99	51.61	41	25.10	2	36.25	306	25.740	135	68.89	202
Aug. 8	44.293	111	61.79	293	41.939	128	52.02	29	25.12	9	33.19	304	25.875	179	66.87	210
18	44.404	168	58.86	276	42.067	155	52.31	14	25.21	16	30.15	290	26.054	220	64.77	214
28	44.572	226	56.10	249	42.222	183	52.45	5	25.37	23	27.25	267	26.274	261	62.63	216
Sept. 7	44.798	280	53.61	213	42.405	210	52.40	26	25.60	30	24.58	232	26.535	301	60.47	214
17	45.078	330	51.48	166	42.615	235	52.14	49	25.90	36	22.26	188	26.836	338	58.33	209
27	45.408	374	49.82	113	42.850	261	51.65	73	26.26	42	20.38	135	27.174	373	56.24	199
Okt. 7	45.782	410	48.69	53	43.111	284	50.92	98	26.68	46	19.03	77	27.547	404	54.25	185
17	46.192	436	48.16	11	43.395	303	49.94	121	27.14	49	18.26	12	27.951	431	52.40	167
27	46.628	450	48.27	76	43.698	319	48.73	142	27.63	51	18.14	54	28.382	451	50.73	145
Nov. 6	47.078	453	49.03	139	44.017	328	47.31	158	28.14	52	18.68	119	28.833	464	49.28	117
16	47.531	440	50.42	199	44.345	330	45.73	170	28.66	51	19.87	182	29.297	466	48.11	86
26	47.971	414	52.41	253	44.675	323	44.03	177	29.17	47	21.69	239	29.763	457	47.25	50
Dez. 6	48.385	374	54.94	299	44.998	308	42.26	176	29.64	43	24.08	288	30.220	436	46.75	13
16	48.759	321	57.93	335	45.306	282	40.50	171	30.07	37	26.96	329	30.656	401	46.62	24
26	49.080	258	61.28	360	45.588	248	38.79	159	30.44	29	30.25	359	31.057	354	46.86	62
36	49.338		64.88		45.836		37.20		30.73		33.84		31.411		47.48	
Mittl. Ort	46.260		65.69		41.726		46.73		27.78		35.33		25.494		63.57	
sec δ, tg δ	1.720		−1.399		1.006		+0.109		2.023		−1.759		1.504		+1.123	

Tag	337) α Cancri AR.		337) α Cancri Dekl.		339) 10 Ursae maj. AR.		339) 10 Ursae maj. Dekl.		341) κ Ursae maj. AR.		341) κ Ursae maj. Dekl.		343) α Volantis AR.		343) α Volantis Dekl.	
1930	8ʰ 54ᵐ		+12° 7′		8ʰ 56ᵐ		+42° 3′		8ʰ 58ᵐ		+47° 25′		9ʰ 1ᵐ		−66° 6′	
Jan. 1	40.231	232	50.79	115	7.237	295	38.36	53	52.508	320	62.28	80	22.57	29	41.43	368
11	40.463	185	49.64	95	7.532	237	38.89	83	52.828	259	63.08	112	22.86	18	45.11	384
21	40.648	135	48.69	72	7.769	173	39.72	111	53.087	189	64.20	141	23.04	8	48.95	389
31	40.783	84	47.97	50	7.942	106	40.83	132	53.276	117	65.61	161	23.12	2	52.84	383
Feb. 9	40.867	32	47.47	28	8.048	40	42.15	146	53.393	44	67.22	175	23.10	12	56.67	368
19	40.899	15	47.19	9	8.088	23	43.61	153	53.437	25	68.97	179	22.98	22	60.35	344
März 1	40.884	58	47.10	7	8.065	79	45.14	152	53.412	86	70.76	176	22.76	30	63.79	313
11	40.826	91	47.17	20	7.986	126	46.66	143	53.326	139	72.52	164	22.46	37	66.92	275
21	40.735	117	47.37	30	7.860	162	48.09	129	53.187	178	74.16	145	22.09	42	69.67	233
31	40.618	133	47.67	38	7.698	186	49.38	108	53.009	206	75.61	120	21.67	46	72.00	186
Apr. 10	40.485	141	48.05	41	7.512	197	50.46	83	52.803	220	76.81	91	21.21	49	73.86	136
20	40.344	139	48.46	44	7.315	198	51.29	57	52.583	221	77.72	58	20.72	50	75.22	84
30	40.205	130	48.90	45	7.117	187	51.86	27	52.362	212	78.30	25	20.22	50	76.06	31
Mai 10	40.075	114	49.35	45	6.930	168	52.13	3	52.150	191	78.55	9	19.72	49	76.37	23
20	39.961	94	49.80	43	6.762	142	52.10	31	51.959	164	78.46	43	19.23	46	76.14	75
30	39.867	70	50.23	41	6.620	109	51.79	57	51.795	129	78.03	74	18.77	42	75.39	125
Juni 9	39.797	43	50.64	38	6.511	74	51.22	83	51.666	91	77.29	102	18.35	38	74.14	171
19	39.754	15	51.02	34	6.437	35	50.39	105	51.575	48	76.27	128	17.97	32	72.43	213
29	39.739	14	51.36	30	6.402	4	49.34	126	51.527	4	74.99	151	17.65	25	70.30	250
Juli 9	39.753	43	51.66	23	6.406	45	48.08	143	51.523	40	73.48	170	17.40	18	67.80	278
19	39.796	72	51.89	15	6.451	85	46.65	157	51.563	84	71.78	186	17.22	10	65.02	298
29	39.868	101	52.04	5	6.536	125	45.08	169	51.647	128	69.92	198	17.12	2	62.04	309
Aug. 8	39.969	129	52.09	7	6.661	163	43.39	179	51.775	171	67.94	207	17.10	7	58.95	310
18	40.098	157	52.02	21	6.824	200	41.60	186	51.946	213	65.87	212	17.17	16	55.85	300
28	40.255	186	51.81	38	7.024	236	39.74	190	52.159	252	63.75	215	17.33	25	52.85	278
Sept. 7	40.441	212	51.43	55	7.260	272	37.84	192	52.411	292	61.60	214	17.58	33	50.07	247
17	40.653	239	50.88	75	7.532	306	35.92	191	52.703	329	59.46	209	17.91	41	47.60	204
27	40.892	265	50.13	95	7.838	337	34.01	186	53.032	364	57.37	201	18.32	48	45.56	154
Okt. 7	41.157	288	49.18	114	8.175	366	32.15	179	53.396	396	55.36	189	18.80	54	44.02	96
17	41.445	309	48.04	132	8.541	391	30.36	166	53.792	423	53.47	172	19.34	58	43.06	32
27	41.754	324	46.72	146	8.932	411	28.70	150	54.215	444	51.75	150	19.92	60	42.74	34
Nov. 6	42.078	335	45.26	156	9.343	423	27.20	128	54.659	458	50.25	123	20.52	61	43.08	102
16	42.413	337	43.70	162	9.766	426	25.92	102	55.117	461	49.02	93	21.13	60	44.10	166
26	42.750	331	42.08	162	10.192	419	24.90	74	55.578	453	48.09	59	21.73	56	45.76	225
Dez. 6	43.081	316	40.46	156	10.611	400	24.16	40	56.031	434	47.50	21	22.29	51	48.01	278
16	43.397	292	38.90	146	11.011	369	23.76	6	56.465	401	47.29	17	22.80	43	50.79	321
26	43.689	257	37.44	129	11.380	327	23.70	29	56.866	355	47.46	55	23.23	35	54.00	355
36	43.946		36.15		11.707		23.99		57.221		48.01		23.58		57.55	
Mittl. Ort	39.684		47.02		6.254		39.66		51.365		64.43		20.76		59.42	
sec δ, tg δ	1.023		+0.215		1.347		+0.902		1.478		+1.089		2.470		−2.258	

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Tag	344) σ² Ursae maj. AR.	Δ	344) Dekl.	Δ	345) λ Argus AR.	Δ	345) Dekl.	Δ	347) ϑ Hydrae AR.	Δ	347) Dekl.	Δ	348) β Argus AR.	Δ	348) Dekl.	Δ
1930	9ʰ 4ᵐ		+67° 24′		9ʰ 5ᵐ		−43° 8′		9ʰ 10ᵐ		+2° 36′		9ʰ 12ᵐ		−69° 25′	
Jan. 1	18.11	51	69.15	170	25.879	231	42.42	345	43.895	235	43.26	173	28.36	34	24.31	363
11	18.62	40	70.85	207	26.110	171	45.87	351	44.130	191	41.53	157	28.70	22	27.94	381
21	19.02	29	72.92	236	26.281	110	49.38	349	44.321	144	39.96	136	28.92	11	31.75	390
31	19.31	17	75.28	255	26.391	46	52.87	337	44.465	94	38.60	114	29.03	1	35.65	388
Feb. 9	19.48	4	77.83	262	26.437	15	56.24	316	44.559	43	37.46	90	29.02	12	39.53	376
19	19.52	7	80.45	260	26.422	71	59.40	290	44.602	4	36.56	67	28.90	23	43.29	355
März 1	19.45	18	83.05	245	26.351	121	62.30	257	44.598	45	35.89	45	28.67	33	46.84	327
11	19.27	27	85.50	221	26.230	162	64.87	221	44.553	79	35.44	26	28.34	41	50.11	292
21	19.00	35	87.71	188	26.068	195	67.08	179	44.474	106	35.18	7	27.93	47	53.03	251
31	18.65	40	89.59	148	25.873	218	68.87	136	44.368	123	35.11	8	27.46	53	55.54	206
Apr. 10	18.25	43	91.07	104	25.655	230	70.23	91	44.245	133	35.19	21	26.93	56	57.60	157
20	17.82	44	92.11	55	25.425	234	71.14	46	44.112	134	35.40	33	26.37	58	59.17	106
30	17.38	43	92.66	5	25.191	230	71.60	0	43.978	128	35.73	44	25.79	59	60.23	52
Mai 10	16.95	41	92.71	43	24.961	218	71.60	46	43.850	115	36.17	52	25.20	58	60.75	2
20	16.54	36	92.28	90	24.743	200	71.14	90	43.735	99	36.69	59	24.62	55	60.73	55
30	16.18	30	91.38	133	24.543	177	70.24	131	43.636	78	37.28	65	24.07	51	60.18	107
Juni 9	15.88	24	90.05	173	24.366	148	68.93	168	43.558	54	37.93	69	23.56	47	59.11	155
19	15.64	17	88.32	208	24.218	117	67.25	201	43.504	29	38.62	72	23.09	40	57.56	199
29	15.47	9	86.24	237	24.101	80	65.24	229	43.475	3	39.34	72	22.69	33	55.57	238
Juli 9	15.38	0	83.87	260	24.021	42	62.95	249	43.472	24	40.06	70	22.36	25	53.19	270
19	15.38	7	81.27	278	23.979	2	60.46	263	43.496	51	40.76	65	22.11	16	50.49	293
29	15.45	16	78.49	290	23.977	40	57.83	267	43.547	79	41.41	56	21.95	7	47.56	307
Aug. 8	15.61	24	75.59	296	24.017	85	55.16	262	43.626	108	41.97	44	21.88	4	44.49	312
18	15.85	32	72.63	296	24.102	129	52.54	248	43.734	135	42.41	28	21.92	14	41.37	305
28	16.17	39	69.67	290	24.231	174	50.06	225	43.869	163	42.69	9	22.06	25	38.32	287
Sept. 7	16.56	46	66.77	280	24.405	218	47.81	192	44.032	192	42.78	13	22.31	34	35.45	258
17	17.02	53	63.97	263	24.623	260	45.89	150	44.224	220	42.65	39	22.65	44	32.87	220
27	17.55	59	61.34	241	24.883	299	44.39	101	44.444	247	42.26	65	23.09	52	30.67	171
Okt. 7	18.14	64	58.93	214	25.182	333	43.38	46	44.691	273	41.61	93	23.61	59	28.96	115
17	18.78	69	56.79	181	25.515	360	42.92	12	44.964	295	40.68	119	24.20	65	27.81	52
27	19.47	72	54.98	142	25.875	379	43.04	72	45.259	313	39.49	144	24.85	68	27.29	14
Nov. 6	20.19	74	53.56	100	26.254	389	43.76	131	45.572	326	38.05	165	25.53	69	27.43	81
16	20.93	75	52.56	53	26.643	388	45.07	187	45.898	331	36.40	181	26.22	68	28.24	147
26	21.68	73	52.03	4	27.031	374	46.94	237	46.229	327	34.59	191	26.90	64	29.71	208
Dez. 6	22.41	69	51.99	46	27.405	349	49.31	280	46.556	314	32.68	195	27.54	58	31.79	263
16	23.10	64	52.45	96	27.754	312	52.11	314	46.870	292	30.73	193	28.12	51	34.42	310
26	23.74	56	53.41	141	28.066	265	55.25	338	47.162	261	28.80	184	28.63	41	37.52	346
36	24.30		54.82		28.331		58.63		47.423		26.96		29.04		40.98	
Mittl. Ort	15.58		73.51		25.141		57.33		43.445		37.80		26.36		43.27	
sec δ, tg δ	2.604		+2.405		1.371		−0.937		1.001		+0.046		2.846		−2.664	

Tag	350) 83 Cancri AR.	Diff.	350) 83 Cancri Dekl.	Diff.	352) 40 Lyncis AR.	Diff.	352) 40 Lyncis Dekl.	Diff.	353) κ Argus AR.	Diff.	353) κ Argus Dekl.	Diff.	354) α Hydrae AR.	Diff.	354) α Hydrae Dekl.	Diff.
1930	9h 15m		+17° 59′		9h 16m		+34° 41′		9h 19m		−54° 42′		9h 24m		−8° 21′	
Jan. 1	5.205	256	72.99	93	48.549	292	21.20	2	57.589	274	22.82	357	9.270	240	7.75	228
11	5.461	211	72.06	68	48.841	242	21.18	29	57.863	203	26.39	372	9.510	196	10.03	217
21	5.672	161	71.38	43	49.083	185	21.47	60	58.066	129	30.11	376	9.706	149	12.20	201
31	5.833	108	70.95	18	49.268	125	22.07	85	58.195	52	33.87	371	9.855	99	14.21	181
Feb. 9*)	5.941	55	70.77	5	49.393	64	22.92	105	58.247	22	37.58	356	9.954	49	16.02	158
19	5.996	5	70.82	23	49.457	6	23.97	118	58.225	91	41.14	334	10.003	3	17.60	133
März 1	6.001	39	71.05	39	49.463	47	25.15	126	58.134	153	44.48	304	10.006	39	18.93	107
11	5.962	77	71.44	49	49.416	91	26.41	125	57.981	206	47.52	268	9.967	74	20.00	81
21	5.885	107	71.93	56	49.325	126	27.66	118	57.775	248	50.20	227	9.893	102	20.81	56
31	5.778	126	72.49	59	49.199	151	28.84	107	57.527	281	52.47	183	9.791	121	21.37	32
Apr. 10	5.652	137	73.08	58	49.048	165	29.91	91	57.246	301	54.30	136	9.670	132	21.69	9
20	5.515	139	73.66	54	48.883	168	30.82	70	56.945	312	55.66	86	9.538	135	21.78	12
30	5.376	134	74.20	50	48.715	163	31.52	49	56.633	314	56.52	36	9.403	132	21.66	33
Mai 10	5.242	121	74.70	42	48.552	149	32.01	25	56.319	305	56.88	14	9.271	122	21.33	52
20	5.121	103	75.12	34	48.403	129	32.26	1	56.014	289	56.74	64	9.149	108	20.81	69
30	5.018	82	75.46	26	48.274	104	32.27	21	55.725	265	56.10	111	9.041	90	20.12	84
Juni 9	4.936	57	75.72	18	48.170	75	32.06	43	55.460	235	54.99	156	8.951	69	19.28	98
19	4.879	30	75.90	8	48.095	43	31.63	65	55.225	198	53.43	195	8.882	46	18.30	108
29	4.849	2	75.98	1	48.052	10	30.98	84	55.027	157	51.48	230	8.836	22	17.22	116
Juli 9	4.847	27	75.97	12	48.042	24	30.14	101	54.870	110	49.18	258	8.814	5	16.06	120
19	4.874	55	75.85	23	48.066	58	29.13	117	54.760	59	46.60	278	8.819	32	14.86	119
29	4.929	84	75.62	34	48.124	92	27.96	132	54.701	4	43.82	289	8.851	59	13.67	114
Aug. 8	5.013	113	75.28	48	48.216	126	26.64	145	54.697	53	40.93	290	8.910	87	12.53	104
18	5.126	142	74.80	62	48.342	160	25.19	156	54.750	113	38.03	282	8.997	117	11.49	89
28	5.268	172	74.18	77	48.502	194	23.63	166	54.863	172	35.21	262	9.114	146	10.60	68
Sept. 7	5.440	201	73.41	93	48.696	227	21.97	174	55.035	232	32.59	233	9.260	176	9.92	42
17	5.641	229	72.48	109	48.923	260	20.23	179	55.267	289	30.26	193	9.436	207	9.50	13
27	5.870	258	71.39	125	49.183	291	18.44	183	55.556	340	28.33	145	9.643	236	9.37	21
Okt. 7	6.128	284	70.14	140	49.474	322	16.61	183	55.896	387	26.88	90	9.879	264	9.58	56
17	6.412	308	68.74	152	49.796	348	14.78	179	56.283	424	25.98	29	10.143	288	10.14	92
27	6.720	328	67.22	160	50.144	371	12.99	171	56.707	450	25.69	35	10.431	309	11.06	127
Nov. 6	7.048	342	65.62	165	50.515	386	11.28	158	57.157	463	26.04	99	10.740	323	12.33	160
16	7.390	349	63.97	165	50.901	393	9.70	139	57.620	463	27.03	161	11.063	330	13.93	188
26	7.739	346	62.32	158	51.294	392	8.31	116	58.083	447	28.64	218	11.393	328	15.81	209
Dez. 6	8.085	335	60.74	147	51.686	379	7.15	88	58.530	417	30.82	270	11.721	316	17.90	224
16	8.420	313	59.27	130	52.065	355	6.27	58	58.947	373	33.52	312	12.037	294	20.14	233
26	8.733	281	57.97	110	52.420	319	5.69	25	59.320	317	36.64	344	12.331	264	22.47	233
36	9.014		56.87		52.739		5.44		59.637		40.08		12.595		24.80	
Mittl. Ort	4.675		70.95		47.796		22.45		56.660		40.26		8.894		15.64	
sec δ, tg δ	1.051		+0.325		1.216		+0.692		1.731		−1.413		1.011		−0.147	

*) Bei Stern 353) und 354) lies Febr. 10

Tag	355) *h* Ursae maj. AR.		Dekl.		359) ψ Argus AR.		Dekl.		358) ϑ Ursae maj. AR.		Dekl.		357) *d* Ursae maj. AR.		Dekl.	
1930	9ʰ 26ᵐ		+63° 21′		9ʰ 27ᵐ		−40° 9′		9ʰ 28ᵐ		+51° 59′		9ʰ 28ᵐ		+70° 7′	
Jan. 1	3.88	49	63.58	132	56.985	253	19.13	332	12.467	376	46.02	76	22.40	61	75.75	157
11	4.37	40	64.90	174	57.238	200	22.45	342	12.843	313	46.78	116	23.01	50	77.32	200
21	4.77	30	66.64	207	57.438	141	25.87	341	13.156	241	47.94	149	23.51	38	79.32	234
31	5.07	20	68.71	232	57.579	81	29.28	332	13.397	164	49.43	176	23.89	25	81.66	259
Feb. 10	5.27	10	71.03	247	57.660	22	32.60	315	13.561	86	51.19	195	24.14	11	84.25	272
19	5.37	1	73.50	251	57.682	33	35.75	290	13.647	9	53.14	204	24.25	3	86.97	274
März 1	5.36	11	76.01	245	57.649	83	38.65	260	13.656	62	55.18	204	24.22	15	89.71	264
11	5.25	19	78.46	227	57.566	126	41.25	226	13.594	123	57.22	194	24.07	26	92.35	244
21	5.06	26	80.73	201	57.440	159	43.51	189	13.471	174	59.16	177	23.81	36	94.79	214
31	4.80	31	82.74	168	57.281	185	45.40	148	13.297	211	60.93	151	23.45	43	96.93	175
Apr. 10	4.49	34	84.42	127	57.096	201	46.88	106	13.086	235	62.44	120	23.02	47	98.68	131
20	4.15	36	85.69	83	56.895	208	47.94	62	12.851	245	63.64	85	22.55	50	99.99	83
30	3.79	36	86.52	37	56.687	208	48.56	18	12.606	243	64.49	48	22.05	50	100.82	32
Mai 10	3.43	34	86.89	11	56.479	201	48.74	25	12.363	229	64.97	9	21.55	48	101.14	20
20	3.09	31	86.78	56	56.278	188	48.49	67	12.134	207	65.06	30	21.07	45	100.94	70
30	2.78	28	86.22	101	56.090	170	47.82	108	11.927	177	64.76	67	20.62	40	100.24	117
Juni 9	2.50	22	85.21	142	55.920	146	46.74	144	11.750	141	64.09	102	20.22	33	99.07	161
19	2.28	16	83.79	178	55.774	120	45.30	178	11.609	100	63.07	134	19.89	25	97.46	201
29	2.12	10	82.01	210	55.654	89	43.52	206	11.509	56	61.73	163	19.64	17	95.45	234
Juli 9	2.02	4	79.91	238	55.565	55	41.46	228	11.453	10	60.10	188	19.47	9	93.11	263
19	1.98	3	77.53	259	55.510	20	39.18	244	11.443	37	58.22	209	19.38	0	90.48	286
29	2.01	10	74.94	276	55.490	19	36.74	250	11.480	84	56.13	226	19.38	10	87.62	302
Aug. 8	2.11	16	72.18	287	55.509	60	34.24	248	11.564	131	53.87	240	19.48	19	84.60	312
18	2.27	23	69.31	293	55.569	101	31.76	238	11.695	177	51.47	248	19.67	27	81.48	317
28	2.50	30	66.38	293	55.670	145	29.38	219	11.872	224	48.99	254	19.94	36	78.31	315
Sept. 7	2.80	36	63.45	288	55.815	188	27.19	189	12.096	270	46.45	255	20.30	45	75.16	306
17	3.16	42	60.57	277	56.003	231	25.30	151	12.366	314	43.90	250	20.75	53	72.10	293
27	3.58	47	57.80	261	56.234	271	23.79	106	12.680	357	41.40	242	21.28	61	69.17	272
Okt. 7	4.05	53	55.19	238	56.505	308	22.73	55	13.037	398	38.98	229	21.89	67	66.45	246
17	4.58	58	52.81	211	56.813	338	22.18	1	13.435	432	36.69	210	22.56	73	63.99	214
27	5.16	61	50.70	177	57.151	363	22.19	59	13.867	462	34.59	186	23.29	78	61.85	175
Nov. 6	5.77	64	48.93	137	57.514	378	22.78	117	14.329	484	32.73	157	24.07	81	60.10	131
16	6.41	65	47.56	94	57.892	383	23.95	171	14.813	495	31.16	121	24.88	82	58.79	83
26	7.06	65	46.62	48	58.275	375	25.66	221	15.308	494	29.95	83	25.70	82	57.96	32
Dez. 6	7.71	62	46.14	3	58.650	357	27.87	264	15.802	481	29.12	40	26.52	80	57.64	22
16	8.33	58	46.17	53	59.007	326	30.51	299	16.283	452	28.72	4	27.32	74	57.86	75
26	8.91	53	46.70	101	59.333	286	33.50	324	16.735	409	28.76	46	28.06	66	58.61	126
36	9.44		47.71		59.619		36.74		17.144		29.22		28.72		59.87	
Mittl. Ort	1.91		69.22		56.453		34.26		11.237		50.57		19.589		82.04	
sec δ, tg δ	2.231		+1.994		1.308		−0.844		1.624		+1.280		2.943		+2.768	

Tag	360) 10 Leonis min. AR.		Dekl.		366) ϑ Antliae AR.		Dekl.	
1930	$9^h\ 29^m$		+36° 42′		$9^h\ 41^m$		−27° 26′	
Jan. 1	57.274	310	31.36	1	5.137	255	41.20	298
11	57.584	261	31.35	33	5.392	210	44.18	301
21	57.845	204	31.68	65	5.602	159	47.19	296
31	58.049	143	32.33	93	5.761	107	50.15	283
Feb. 10	58.192	81	33.26	115	5.868	54	52.98	264
19	[13] 58.273	21	34.41	130	[16] 5.922	3	55.62	240
März 1	58.294	34	35.71	138	5.925	42	58.02	212
11	58.260	80	37.09	139	5.883	81	60.14	180
21	58.180	119	38.48	132	5.802	113	61.94	147
31	58.061	147	39.80	120	5.689	135	63.41	113
Apr. 10	57.914	163	41.00	102	5.554	151	64.54	77
20	57.751	170	42.02	81	5.403	158	65.31	42
30	57.581	167	42.83	57	5.245	159	65.73	6
Mai 10	57.414	156	43.40	32	5.086	153	65.79	28
20	57.258	139	43.72	6	4.933	143	65.51	62
30	57.119	115	43.78	20	4.790	127	64.89	94
Juni 9	57.004	87	43.58	45	4.663	109	63.95	123
19	56.917	57	43.13	69	4.554	86	62.72	147
29	56.860	24	42.44	90	4.468	62	61.25	170
Juli 9	56.836	9	41.54	110	4.406	36	59.55	185
19	56.845	43	40.44	129	4.370	6	57.70	195
29	56.888	78	39.15	145	4.364	25	55.75	200
Aug. 8	56.966	112	37.70	159	4.389	57	53.75	195
18	57.078	147	36.11	172	4.446	91	51.80	184
28	57.225	182	34.39	183	4.537	128	49.96	165
Sept. 7	57.407	218	32.56	191	4.665	164	48.31	138
17	57.625	252	30.65	197	4.829	200	46.93	103
27	57.877	286	28.68	199	5.029	237	45.90	64
Okt. 7	58.163	319	26.69	199	5.266	270	45.26	18
17	58.482	348	24.70	194	5.536	300	45.08	30
27	58.830	373	22.76	184	5.836	325	45.38	80
Nov. 6	59.203	391	20.92	169	6.161	342	46.18	129
16	59.594	402	19.23	149	6.503	350	47.47	174
26	59.996	403	17.74	124	6.853	349	49.21	216
Dez. 6	60.399	393	16.50	94	7.202	338	51.37	250
16	60.792	370	15.56	60	7.540	314	53.87	276
26	61.162	337	14.96	26	7.854	283	56.63	293
36	61.499		14.70		8.137		59.56	
Mittl. Ort	56.523		33.63		4.804		53.83	
sec δ tg δ	1.247		+0.746		1.127		−0.519	

Tag	367) ε Leonis AR.		Dekl.		369) υ Argus AR.		Dekl.	
1930	$9^h\ 41^m$		+24° 5′		$9^h\ 45^m$		−64° 44′	
Jan. 1	53.430	288	50.32	75	22.27	37	28.86	347
11	53.718	244	49.57	46	22.64	29	32.33	371
21	53.962	195	49.11	15	22.93	19	36.04	386
31	54.157	142	48.96	13	23.12	10	39.90	389
Feb. 10	54.299	86	49.09	38	23.22	0	43.79	383
19	[16] 54.385	34	49.47	58	[17] 23.22	9	47.62	368
März 1	54.419	14	50.05	74	23.13	18	51.30	345
11	54.405	57	50.79	84	22.95	25	54.75	314
21	54.348	91	51.63	88	22.70	32	57.89	278
31	54.257	115	52.51	87	22.38	36	60.67	236
Apr. 10	54.142	131	53.38	83	22.02	40	63.03	190
20	54.011	139	54.21	74	21.62	43	64.93	141
30	53.872	138	54.95	62	21.19	44	66.34	90
Mai 10	53.734	129	55.57	48	20.75	44	67.24	38
20	53.605	116	56.05	34	20.31	43	67.62	16
30	53.489	97	56.39	19	19.88	41	67.46	68
Juni 9	53.392	76	56.58	3	19.47	39	66.78	118
19	53.316	52	56.61	13	19.08	34	65.60	164
29	53.264	25	56.48	28	18.74	29	63.96	206
Juli 9	53.239	3	56.20	44	18.45	24	61.90	242
19	53.242	30	55.76	59	18.21	17	59.48	270
29	53.272	59	55.17	74	18.04	9	56.78	290
Aug. 8	53.331	89	54.43	90	17.95	2	53.88	300
18	53.420	120	53.53	105	17.93	6	50.88	300
28	53.540	150	52.48	120	17.99	15	47.88	289
Sept. 7	53.690	182	51.28	134	18.14	24	44.99	267
17	53.872	214	49.94	149	18.38	32	42.32	234
27	54.086	246	48.45	162	18.70	40	39.98	190
Okt. 7	54.332	276	46.83	172	19.10	46	38.08	139
17	54.608	306	45.11	180	19.56	52	36.69	80
27	54.914	330	43.31	183	20.08	57	35.89	17
Nov. 6	55.244	349	41.48	181	20.65	59	35.72	50
16	55.593	361	39.67	175	21.24	60	36.22	115
26	55.954	364	37.92	163	21.84	58	37.37	179
Dez. 6	56.318	357	36.29	145	22.42	55	39.16	236
16	56.675	340	34.84	122	22.97	50	41.52	286
26	57.015	311	33.62	96	23.47	43	44.38	328
36	57.326		32.66		23.90		47.66	
Mittl. Ort	52.928		50.55		21.18		48.84	
sec δ tg δ	1.095		+0.447		2.344		−2.120	

Tag	368) υ Ursae maj. AR.		Dekl.		370) 6 Sextantis AR.		Dekl.		372) Grb 1586 AR.		Dekl.		378) π Leonis AR.		Dekl.	
1930	9h 46m		+59° 21′		9h 47m		−3° 54′		9h 52m		+73° 12′		9h 56m		+8° 22′	
Jan. 1	3.307	460	61.93	94	42.714	260	45.88	212	13.24	75	40.48	143	31.279	275	54.03	160
11	3.767	390	62.87	138	42.974	220	48.00	199	13.99	63	41.91	190	31.554	237	52.43	139
21	4.157	308	64.25	176	43.194	174	49.99	182	14.62	50	43.81	229	31.791	191	51.04	115
31	4.465	219	66.01	206	43.368	126	51.81	161	15.12	35	46.10	259	31.982	142	49.89	89
Feb. 10	4.684	126	68.07	228	43.494	77	53.42	137	15.47	19	48.69	278	32.124	93	49.00	63
	17				17				18				19			
19	4.810	34	70.35	238	43.571	29	54.79	113	15.66	3	51.47	286	32.217	44	48.37	39
März 1	4.844	52	72.73	238	43.600	14	55.92	88	15.69	12	54.33	280	32.261	0	47.98	17
11	4.792	130	75.11	228	43.586	50	56.80	63	15.57	25	57.13	264	32.261	40	47.81	3
21	4.662	194	77.39	208	43.536	81	57.43	41	15.32	37	59.77	237	32.221	71	47.84	18
31	4.468	246	79.47	180	43.455	102	57.84	20	14.95	47	62.14	201	32.150	95	48.02	31
Apr. 10	4.222	280	81.27	145	43.353	117	58.04	1	14.48	54	64.15	157	32.055	111	48.33	41
20	3.942	301	82.72	106	43.236	123	58.05	17	13.94	58	65.72	109	31.944	120	48.74	47
30	3.641	306	83.78	62	43.113	124	57.88	33	13.36	60	66.81	57	31.824	120	49.21	51
Mai 10	3.335	297	84.40	18	42.989	118	57.55	47	12.76	60	67.38	4	31.704	115	49.72	53
20	3.038	276	84.58	27	42.871	107	57.08	60	12.16	56	67.42	49	31.589	106	50.25	54
30	2.762	246	84.31	71	42.764	93	56.48	70	11.60	52	66.93	100	31.483	92	50.79	52
Juni 9	2.516	207	83.60	111	42.671	75	55.78	80	11.08	45	65.93	148	31.391	74	51.31	50
19	2.309	162	82.49	150	42.596	55	54.98	87	10.63	38	64.45	191	31.317	55	51.81	47
29	2.147	112	80.99	184	42.541	34	54.11	90	10.25	29	62.54	230	31.262	33	52.28	41
Juli 9	2.035	59	79.15	213	42.507	10	53.21	92	9.96	20	60.24	264	31.229	11	52.69	34
19	1.976	4	77.02	239	42.497	15	52.29	91	9.76	9	57.60	291	31.218	14	53.03	26
29	1.972	53	74.63	259	42.512	40	51.38	84	9.67	1	54.69	312	31.232	39	53.29	14
Aug. 8	2.025	111	72.04	275	42.552	68	50.54	74	9.68	12	51.57	326	31.271	66	53.43	1
18	2.136	168	69.29	286	42.620	96	49.80	59	9.80	23	48.31	335	31.337	93	53.44	15
28	2.304	226	66.43	290	42.716	125	49.21	40	10.03	33	44.96	336	31.430	123	53.29	33
Sept. 7	2.530	283	63.53	291	42.841	156	48.81	16	10.36	43	41.60	332	31.553	153	52.96	54
17	2.813	340	60.62	286	42.997	188	48.65	10	10.79	54	38.28	320	31.706	185	52.42	76
27	3.153	393	57.76	275	43.185	219	48.75	40	11.33	63	35.08	301	31.891	216	51.66	99
Okt. 7	3.546	444	55.01	258	43.404	249	49.15	72	11.96	72	32.07	277	32.107	248	50.67	122
17	3.990	489	52.43	235	43.653	278	49.87	104	12.68	80	29.30	245	32.355	276	49.45	144
27	4.479	529	50.08	206	43.931	301	50.91	135	13.48	86	26.85	207	32.631	302	48.01	163
Nov. 6	5.008	559	48.02	171	44.232	320	52.26	163	14.34	90	24.78	163	32.933	322	46.38	179
16	5.567	577	46.31	131	44.552	331	53.89	187	15.24	94	23.15	113	33.255	336	44.59	190
26	6.144	581	45.00	86	44.883	333	55.76	205	16.18	95	22.02	60	33.591	341	42.69	195
Dez. 6	6.725	570	44.14	37	45.216	327	57.81	217	17.13	93	21.42	4	33.932	336	40.74	194
16	7.295	541	43.77	12	45.543	309	59.98	221	18.06	88	21.38	53	34.268	321	38.80	186
26	7.836	496	43.89	61	45.852	282	62.19	219	18.94	80	21.91	108	34.589	297	36.94	173
36	8.332		44.50		46.134		64.38		19.74		22.99		34.886		35.21	
Mittl. Ort	1.749		68.54		42.434		52.50		9.99		48.67		30.981		50.83	
sec δ, tg δ	1.963		+1.689		1.002		−0.068		3.462		+3.315		1.011		+0.147	

Tag	379) η Leonis AR.		Dekl.		380) α Leonis AR.		Dekl.		381) λ Hydrae AR.		Dekl.		382) q Velorum AR.		Dekl.	
1930	10h 3m		+17° 5′		10h 4m		+12° 18′		10h 7m		−12° 0′		10h 11m		−41° 46′	
Jan. 1	31.491	291	77.53	122	39.083	285	37.72	145	10.704	272	18.03	245	47.804	306	11.88	318
11	31.782	252	76.31	95	39.368	247	36.27	121	10.976	234	20.48	239	48.110	256	15.06	335
21	32.034	207	75.36	66	39.615	201	35.06	95	11.210	189	22.87	228	48.366	201	18.41	342
31	32.241	156	74.70	37	39.816	154	34.11	67	11.399	141	25.15	210	48.567	142	21.83	341
Feb. 10	32.397	105	74.33	10	39.970	103	33.44	40	11.540	92	27.25	189	48.709	83	25.24	330
20	32.502	55	74.23	14	40.073	53	33.04	16	11.632	45	29.14	164	48.792	26	28.54	312
März 1	32.557	8	74.37	34	40.126	7	32.88	6	11.677	1	30.78	138	48.818	27	31.66	289
11	32.565	34	74.71	51	40.133	32	32.94	24	11.678	38	32.16	112	48.791	75	34.55	259
21	32.531	68	75.22	61	40.101	65	33.18	39	11.640	69	33.28	86	48.716	114	37.14	226
31	32.463	94	75.83	68	40.036	91	33.57	48	11.571	94	34.14	60	48.602	146	39.40	190
Apr. 10	32.369	112	76.51	70	39.945	108	34.05	55	11.477	110	34.74	35	48.456	169	41.30	150
20	32.257	121	77.21	69	39.837	118	34.60	58	11.367	121	35.09	11	48.287	186	42.80	108
30	32.136	124	77.90	65	39.719	121	35.18	58	11.246	124	35.20	12	48.101	195	43.88	66
Mai 10	32.012	120	78.55	58	39.598	117	35.76	57	11.122	121	35.08	33	47.906	196	44.54	22
20	31.892	111	79.13	49	39.481	108	36.33	53	11.001	115	34.75	53	47.710	193	44.76	20
30	31.781	97	79.62	40	39.373	95	36.86	47	10.886	104	34.22	72	47.517	183	44.56	62
Juni 9	31.684	80	80.02	29	39.278	78	37.33	41	10.782	89	33.50	87	47.334	169	43.94	101
19	31.604	60	80.31	18	39.200	60	37.74	34	10.693	73	32.63	101	47.165	150	42.93	139
29	31.544	39	80.49	5	39.140	39	38.08	25	10.620	53	31.62	111	47.015	126	41.54	172
Juli 9	31.505	15	80.54	8	39.101	16	38.33	15	10.567	31	30.51	119	46.889	99	39.82	199
19	31.490	10	80.46	21	39.085	7	38.48	4	10.536	9	29.32	122	46.790	68	37.83	220
29	31.500	35	80.25	36	39.092	33	38.52	9	10.527	16	28.10	120	46.722	33	35.63	235
Aug. 8	31.535	63	79.89	52	39.125	59	38.43	24	10.543	44	26.90	113	46.689	6	33.28	241
18	31.598	92	79.37	69	39.184	87	38.19	40	10.587	72	25.77	101	46.695	48	30.87	239
28	31.690	121	78.68	86	39.271	117	37.79	58	10.659	104	24.76	83	46.743	93	28.48	226
Sept. 7	31.811	152	77.82	104	39.388	147	37.21	78	10.763	136	23.93	60	46.836	140	26.22	205
17	31.963	185	76.78	123	39.535	179	36.43	98	10.899	170	23.33	32	46.976	187	24.17	175
27	32.148	217	75.55	141	39.714	212	35.45	119	11.069	204	23.01	1	47.163	235	22.42	136
Okt. 7	32.365	250	74.14	158	39.926	244	34.26	140	11.273	238	23.02	37	47.398	279	21.06	90
17	32.615	281	72.56	173	40.170	274	32.86	158	11.511	269	23.39	74	47.677	320	20.16	38
27	32.896	308	70.83	184	40.444	302	31.28	175	11.780	296	24.13	112	47.997	354	19.78	18
Nov. 6	33.204	330	68.99	191	40.746	323	29.53	186	12.076	318	25.25	148	48.351	380	19.96	75
16	33.534	345	67.08	192	41.069	338	27.67	193	12.394	332	26.73	180	48.731	394	20.71	132
26	33.879	352	65.16	188	41.407	346	25.74	194	12.726	338	28.53	207	49.125	398	22.03	184
Dez. 6	34.231	350	63.28	177	41.753	342	23.80	188	13.064	333	30.60	228	49.523	389	23.87	232
16	34.581	335	61.51	161	42.095	329	21.92	177	13.397	319	32.88	241	49.912	367	26.19	273
26	34.916	312	59.90	140	42.424	305	20.15	160	13.716	293	35.29	247	50.279	334	28.92	305
36	35.228		58.50		42.729		18.55		14.009		37.76		50.613		31.97	
Mittl. Ort	31.153		76.84		38.792		35.79		10.537		26.71		47.588		28.41	
sec δ, tg δ	1.046		+0.308		1.023		+0.218		1.022		−0.213		1.341		−0.893	

Scheinbare Sternörter 1930

Tag	384) ζ Leonis AR.		384) ζ Leonis Dekl.		383) λ Ursae maj. AR.		383) λ Ursae maj. Dekl.		386) μ Ursae maj. AR.		386) μ Ursae maj. Dekl.		387) 30 H. Ursae maj. AR.		387) 30 H. Ursae maj. Dekl.	
1930	10h 12m		+23° 45′		10h 12m		+43° 15′		10h 18m		+41° 50′		10h 19m		+65° 54′	
Jan. 1	48.440	308	59.29	97	53.742	370	46.64	6	10.683	368	61.94	17	8.27	59	66.99	84
11	48.748	270	58.32	64	54.112	324	46.58	37	11.051	322	61.77	26	8.86	52	67.83	135
21	49.018	224	57.68	32	54.436	268	46.95	78	11.373	270	62.03	66	9.38	43	69.18	180
31	49.242	173	57.36	0	54.704	206	47.73	113	11.643	209	62.69	103	9.81	33	70.98	218
Feb. 10	49.415	120	57.36	29	54.910	140	48.86	142	11.852	145	63.72	133	10.14	22	73.16	245
20	49.535	67	57.65	54	55.050	75	50.28	164	11.997	81	65.05	156	10.36	10	75.61	263
März 1	49.602	17	58.19	73	55.125	12	51.92	177	12.078	20	66.61	171	10.46	0	78.24	267
11	49.619	26	58.92	87	55.137	44	53.69	181	12.098	35	68.32	177	10.46	11	80.91	262
21	49.593	64	59.79	95	55.093	92	55.50	177	12.063	83	70.09	174	10.35	20	83.53	244
31	49.529	93	60.74	97	55.001	130	57.27	164	11.980	121	71.83	163	10.15	27	85.97	218
Apr. 10	49.436	113	61.71	95	54.871	158	58.91	146	11.859	149	73.46	147	9.88	32	88.15	183
20	49.323	125	62.66	87	54.713	176	60.37	121	11.710	167	74.93	124	9.56	37	89.98	142
30	49.198	129	63.53	77	54.537	183	61.58	92	11.543	175	76.17	96	9.19	39	91.40	96
Mai 10	49.069	128	64.30	63	54.354	181	62.50	61	11.368	175	77.13	66	8.80	39	92.36	47
20	48.941	119	64.93	48	54.173	172	63.11	28	11.193	166	77.79	34	8.41	39	92.83	2
30	48.822	106	65.41	32	54.001	156	63.39	6	11.027	152	78.13	1	8.02	36	92.81	52
Juni 9	48.716	90	65.73	15	53.845	134	63.33	40	10.875	132	78.14	31	7.66	32	92.29	99
19	48.626	70	65.88	3	53.711	108	62.93	71	10.743	108	77.83	63	7.34	28	91.30	144
29	48.556	48	65.85	21	53.603	80	62.22	102	10.635	80	77.20	93	7.06	22	89.86	184
Juli 9	48.508	24	65.64	39	53.523	47	61.20	131	10.555	50	76.27	122	6.84	17	88.02	222
19	48.484	0	65.25	56	53.476	14	59.89	156	10.505	19	75.05	148	6.67	10	85.80	254
29	48.484	27	64.69	75	53.462	22	58.33	180	10.486	16	73.57	171	6.57	4	83.26	280
Aug. 8	48.511	55	63.94	92	53.484	58	56.53	200	10.502	51	71.86	193	6.53	4	80.46	301
18	48.566	85	63.02	109	53.542	96	54.53	217	10.553	88	69.93	210	6.57	11	77.45	317
28	48.651	116	61.93	127	53.638	136	52.36	232	10.641	126	67.83	226	6.68	18	74.28	326
Sept. 7	48.767	149	60.66	144	53.774	176	50.04	242	10.767	167	65.57	238	6.86	26	71.02	329
17	48.916	183	59.22	160	53.950	218	47.62	250	10.934	207	63.19	247	7.12	33	67.73	327
27	49.099	217	57.62	175	54.168	260	45.12	252	11.141	249	60.72	251	7.45	40	64.46	316
Okt. 7	49.316	251	55.87	187	54.428	300	42.60	251	11.390	290	58.21	250	7.85	48	61.30	300
17	49.567	284	54.00	197	54.728	340	40.09	243	11.680	328	55.71	245	8.33	54	58.30	277
27	49.851	314	52.03	202	55.068	374	37.66	231	12.008	364	53.26	234	8.87	59	55.53	247
Nov. 6	50.165	338	50.01	202	55.442	403	35.35	211	12.372	393	50.92	216	9.46	64	53.06	209
16	50.503	356	47.99	196	55.845	425	33.24	186	12.765	415	48.76	193	10.10	68	50.97	165
26	50.859	365	46.03	186	56.270	435	31.38	155	13.180	427	46.83	163	10.78	70	49.32	117
Dez. 6	51.224	364	44.17	168	56.705	434	29.83	119	13.607	428	45.20	128	11.48	69	48.15	63
16	51.588	352	42.49	145	57.139	421	28.64	78	14.035	415	43.92	89	12.17	67	47.52	9
26	51.940	329	41.04	117	57.560	393	27.86	35	14.450	390	43.03	45	12.84	63	47.43	48
36	52.269		39.87		57.953		27.51		14.840		42.58		13.47		47.91	
Mittl. Ort	48.068		60.64		53.010		52.40		10.013		67.70		6.37		76.46	
sec δ, tg δ	1.093		+0.440		1.373		+0.941		1.342		+0.896		2.451		+2.238	

Tag	389) μ Hydrae AR.		389) μ Hydrae Dekl.		391) J Carinae AR.		391) J Carinae Dekl.		390) 31 Leonis min. AR.		390) 31 Leonis min. Dekl.		392) Lac. α Antliae AR.		392) Lac. α Antliae Dekl.	
1930	10h 22m		−16° 28′		10h 22m		−73° 40′		10h 23m		+37° 3′		10h 23m		−30° 42′	
Jan. 1	42.343	284	32.50	259	61.57	61	7.33	311	51.081	353	54.49	44	56.850	297	25.24	294
11	42.627	247	35.09	257	62.18	50	10.44	348	51.434	310	54.05	3	57.147	255	28.18	305
21	42.874	204	37.66	250	62.68	37	13.92	374	51.744	261	54.02	37	57.402	208	31.23	306
31	43.078	156	40.16	235	63.05	24	17.66	390	52.005	205	54.39	73	57.610	157	34.29	299
Feb. 10	43.234	106	42.51	215	63.29	10	21.56	395	52.210	145	55.12	104	57.767	103	37.28	287
20	43.340	59	44.66	193	63.39	4	25.51	392	52.355	85	56.16	129	57.870	53	40.15	267
März 1	43.399	15	46.59	168	63.35	16	29.43	378	52.440	29	57.45	147	57.923	4	42.82	243
11	43.414	25	48.27	140	63.19	28	33.21	358	52.469	24	58.92	155	57.927	38	45.25	215
21	43.389	58	49.67	113	62.91	39	36.79	329	52.445	68	60.47	157	57.889	75	47.40	184
31	43.331	85	50.80	85	62.52	47	40.08	295	52.377	105	62.04	151	57.814	103	49.24	151
Apr. 10	43.246	104	51.65	58	62.05	56	43.03	254	52.272	131	63.55	138	57.711	125	50.75	117
20	43.142	116	52.23	31	61.49	61	45.57	209	52.141	148	64.93	121	57.586	140	51.92	81
30	43.026	122	52.54	6	60.88	65	47.66	161	51.993	156	66.14	97	57.446	148	52.73	45
Mai 10	42.904	123	52.60	20	60.23	68	49.27	108	51.837	156	67.11	71	57.298	151	53.18	10
20	42.781	119	52.40	43	59.55	69	50.35	54	51.681	150	67.82	44	57.147	148	53.28	25
30	42.662	111	51.97	65	58.86	69	50.89	0	51.531	138	68.26	14	56.999	141	53.03	59
Juni 9	42.551	99	51.32	85	58.17	67	50.89	54	51.393	120	68.40	15	56.858	129	52.44	91
19	42.452	84	50.47	103	57.50	62	50.35	106	51.273	99	68.25	43	56.729	114	51.53	121
29	42.368	67	49.44	117	56.88	57	49.29	155	51.174	74	67.82	72	56.615	96	50.32	146
Juli 9	42.301	48	48.27	128	56.31	50	47.74	200	51.100	48	67.10	98	56.519	74	48.86	168
19	42.253	25	46.99	134	55.81	41	45.74	238	51.052	19	66.12	123	56.445	50	47.18	184
29	42.228	1	45.65	136	55.40	30	43.36	268	51.033	12	64.89	146	56.395	21	45.34	193
Aug. 8	42.227	25	44.29	132	55.10	19	40.68	291	51.045	44	63.43	168	56.374	10	43.41	196
18	42.252	56	42.97	122	54.91	7	37.77	302	51.089	78	61.75	186	56.384	44	41.45	191
28	42.308	87	41.75	106	54.84	7	34.75	303	51.167	113	59.89	203	56.428	82	39.54	179
Sept. 7	42.395	121	40.69	84	54.91	20	31.72	293	51.280	151	57.86	217	56.510	121	37.75	158
17	42.516	156	39.85	56	55.11	34	28.79	270	51.431	189	55.69	229	56.631	162	36.17	129
27	42.672	193	39.29	24	55.45	47	26.09	238	51.620	229	53.40	237	56.793	204	34.88	93
Okt. 7	42.865	229	39.05	14	55.92	58	23.71	195	51.849	269	51.03	240	56.997	244	33.95	51
17	43.094	263	39.19	53	56.50	70	21.76	142	52.118	306	48.63	239	57.241	281	33.44	5
27	43.357	293	39.72	94	57.20	78	20.34	82	52.424	340	46.24	233	57.522	315	33.39	45
Nov. 6	43.650	317	40.66	133	57.98	83	19.52	18	52.764	370	43.91	221	57.837	341	33.84	95
16	43.967	335	41.99	169	58.81	87	19.34	48	53.134	392	41.70	202	58.178	358	34.79	143
26	44.302	343	43.68	202	59.68	86	19.82	114	53.526	404	39.68	176	58.536	366	36.22	189
Dez. 6	44.645	340	45.70	228	60.54	83	20.96	178	53.930	406	37.92	146	58.902	362	38.11	228
16	44.985	328	47.98	247	61.37	77	22.74	235	54.336	395	36.46	111	59.264	346	40.39	261
26	45.313	305	50.45	258	62.14	68	25.09	286	54.731	373	35.35	71	59.610	320	43.00	285
36	45.618		53.03		62.82		27.95		55.104		34.64		59.930		45.85	
Mittl. Ort	42.267		42.38		60.52		29.69		50.546		59.52		56.779		39.14	
sec δ, tg δ	1.043		−0.296		3.558		−3.414		1.253		+0.755		1.163		−0.594	

Scheinbare Sternörter 1930

Tag	393) *s* Carinae AR.		393) Dekl.		394) 36 Ursae maj. AR.		394) Dekl.		395) 9 H. Draconis AR.		395) Dekl.		404) 33 Sextantis AR.		404) Dekl.	
1930	$10^h\ 25^m$		$-58°\ 22'$		$10^h\ 26^m$		$+56°\ 19'$		$10^h\ 29^m$		$+76°\ 3'$		$10^h\ 37^m$		$-1°\ 22'$	
Jan. 1	18.587	395	33.70	320	10.781	469	75.91	37	15.32	96	77.10	107	50.603	294	18.24	211
11	18.982	330	36.90	350	11.250	415	76.28	88	16.28	83	78.17	161	50.897	261	20.35	197
21	19.312	257	40.40	369	11.665	348	77.16	133	17.11	70	79.78	209	51.158	221	22.32	178
31	19.569	180	44.09	378	12.013	271	78.49	172	17.81	53	81.87	247	51.379	176	24.10	156
Feb. 10	19.749	102	47.87	377	12.284	188	80.21	203	18.34	35	84.34	275	51.555	128	25.66	132
20	19.851	25	51.64	368	12.472	104	82.24	224	18.69	17	87.09	291	51.683	82	26.98	106
März 1*)	19.876	47	55.32	350	12.576	22	84.48	236	18.86	1	90.00	295	51.765	37	28.04	81
11	19.829	112	58.82	326	12.598	52	86.84	235	18.85	18	92.95	286	51.802	2	28.85	56
21	19.717	170	62.08	295	12.546	119	89.19	226	18.67	35	95.81	266	51.800	36	29.41	34
31	19.547	217	65.03	258	12.427	174	91.45	207	18.32	47	98.47	236	51.764	64	29.75	15
Apr. 10	19.330	255	67.61	217	12.253	216	93.52	179	17.85	58	100.83	197	51.700	84	29.90	4
20	19.075	285	69.78	173	12.037	245	95.31	146	17.27	67	102.80	151	51.616	98	29.86	19
30	18.790	305	71.51	125	11.792	261	96.77	107	16.60	71	104.31	99	51.518	105	29.67	31
Mai 10	18.485	316	72.76	75	11.531	265	97.84	65	15.89	73	105.30	46	51.413	107	29.36	43
20	18.169	318	73.51	26	11.266	258	98.49	22	15.16	73	105.76	9	51.306	105	28.93	52
30	17.851	313	73.77	25	11.008	242	98.71	22	14.43	69	105.67	63	51.201	98	28.41	59
Juni 9	17.538	299	73.52	75	10.766	217	98.49	65	13.74	64	105.04	116	51.103	88	27.82	65
29	17.239	278	72.77	121	10.549	186	97.84	107	13.10	58	103.88	164	51.015	76	27.17	69
19	16.961	248	71.56	164	10.363	149	96.77	145	12.52	48	102.24	210	50.939	61	26.48	70
Juli 9	16.713	212	69.92	203	10.214	108	95.32	180	12.04	38	100.14	249	50.878	43	25.78	69
19	16.501	168	67.89	235	10.106	64	93.52	212	11.66	28	97.65	283	50.835	24	25.09	66
29	16.333	117	65.54	260	10.042	17	91.40	239	11.38	16	94.82	311	50.811	3	24.43	59
Aug. 8	16.216	60	62.94	275	10.025	32	89.01	262	11.22	3	91.71	333	50.808	22	23.84	49
18	16.156	3	60.19	282	10.057	83	86.39	280	11.19	9	88.38	348	50.830	48	23.35	35
28	16.159	71	57.37	278	10.140	136	83.59	294	11.28	21	84.90	357	50.878	77	23.00	18
Sept. 7	16.230	141	54.59	264	10.276	190	80.65	301	11.49	35	81.33	357	50.955	109	22.82	4
17	16.371	212	51.95	238	10.466	246	77.64	304	11.84	48	77.76	352	51.064	143	22.86	28
27	16.583	282	49.57	202	10.712	300	74.60	302	12.32	60	74.24	339	51.207	177	23.14	55
Okt. 7	16.865	348	47.55	157	11.012	354	71.58	292	12.92	72	70.85	318	51.384	213	23.69	84
17	17.213	407	45.98	104	11.366	405	68.66	276	13.64	82	67.67	290	51.597	247	24.53	114
27	17.620	456	44.94	45	11.771	452	65.90	254	14.46	92	64.77	254	51.844	278	25.67	142
Nov. 6	18.076	492	44.49	18	12.223	491	63.36	224	15.38	100	62.23	212	52.122	305	27.09	168
16	18.568	514	44.67	81	12.714	519	61.12	188	16.38	107	60.11	163	52.427	325	28.77	190
26	19.082	518	45.48	143	13.233	537	59.24	147	17.45	109	58.48	109	52.752	337	30.67	206
Dez. 6	19.600	506	46.91	202	13.770	539	57.77	99	18.54	109	57.39	50	53.089	338	32.73	217
16	20.106	477	48.93	255	14.309	526	56.78	48	19.63	107	56.89	9	53.427	331	34.90	221
26	20.583	432	51.48	299	14.835	496	56.30	3	20.70	101	56.98	69	53.758	313	37.11	218
36	21.015		54.47		15.331		56.33		21.71		57.67		54.071		39.29	
Mittl. Ort	18.280		53.92		9.631		84.65		11.73		87.98		50.557		23.36	
sec δ, tg δ	1.907		−1.624		1.804		+1.502		4.155		+4.033		1.000		−0.024	

*) Bei Stern 404) lies März 2

Tag	406) ϑ Argus AR.	Δ	406) ϑ Argus Dekl.	Δ	407) 42 Leonis min. AR.	Δ	407) 42 Leonis min. Dekl.	Δ	408) μ Argus AR.	Δ	408) μ Argus Dekl.	Δ	409) *l* Leonis AR.	Δ	409) *l* Leonis Dekl.	Δ
1930	10h 40m		−64° 1′		10h 41m		+31° 2′		10h 43m		−49° 2′		10h 45m		+10° 54′	
Jan. 1	27.56	47	16.95	305	59.018	343	61.02	85	45.138	365	41.59	305	34.874	308	58.72	168
11	28.03	40	20.00	341	59.361	308	60.17	45	45.503	315	44.64	332	35.182	276	57.04	144
21	28.43	32	23.41	366	59.669	264	59.72	7	45.818	258	47.96	348	35.458	236	55.60	116
31	28.75	23	27.07	381	59.933	213	59.65	30	46.076	197	51.44	356	35.694	191	54.44	88
Feb. 10	28.98	14	30.88	385	60.146	158	59.95	64	46.273	133	55.00	354	35.885	143	53.56	58
20	29.12	5	34.73	382	60.304	102	60.59	92	46.406	70	58.54	344	36.028	96	52.98	31
März 2	29.17	3	38.55	369	60.406	50	61.51	114	46.476	10	61.98	327	36.124	49	52.67	6
11	29.14	12	42.24	348	60.456	0	62.65	129	46.486	44	65.25	304	36.173	7	52.61	16
21	29.02	18	45.72	321	60.456	42	63.94	137	46.442	93	68.29	274	36.180	28	52.77	34
31	28.84	24	48.93	288	60.414	77	65.31	137	46.349	132	71.03	240	36.152	58	53.11	47
April 10	28.60	29	51.81	248	60.337	104	66.68	131	46.217	165	73.43	202	36.094	80	53.58	57
20	28.31	33	54.29	205	60.233	122	67.99	119	46.052	191	75.45	162	36.014	95	54.15	63
30	27.98	37	56.34	158	60.111	133	69.18	103	45.861	208	77.07	118	35.919	105	54.78	64
Mai 10	27.61	38	57.92	108	59.978	137	70.21	83	45.653	219	78.25	73	35.814	107	55.42	64
20	27.23	39	59.00	57	59.841	133	71.04	60	45.434	224	78.98	28	35.707	105	56.06	60
30	26.84	40	59.57	5	59.708	125	71.64	36	45.210	223	79.26	18	35.602	99	56.66	56
Juni 9	26.44	38	59.62	47	59.583	113	72.00	11	44.987	214	79.08	63	35.503	90	57.22	49
19	26.06	36	59.15	97	59.470	96	72.11	14	44.773	202	78.45	106	35.413	77	57.71	41
29	25.70	34	58.18	145	59.374	77	71.97	40	44.571	182	77.39	145	35.336	63	58.12	32
Juli 9	25.36	30	56.73	187	59.297	55	71.57	65	44.389	157	75.94	180	35.273	45	58.44	21
19	25.06	24	54.86	224	59.242	32	70.92	88	44.232	127	74.14	210	35.228	26	58.65	9
29	24.82	19	52.62	253	59.210	5	70.04	112	44.105	91	72.04	232	35.202	4	58.74	5
Aug. 8	24.63	12	50.09	275	59.205	24	68.92	134	44.014	49	69.72	247	35.198	19	58.69	20
18	24.51	4	47.34	288	59.229	53	67.58	154	43.965	3	67.25	253	35.217	45	58.49	38
28	24.47	3	44.46	289	59.282	87	66.04	174	43.962	49	64.72	250	35.262	74	58.11	57
Sept. 7	24.50	12	41.57	279	59.369	121	64.30	192	44.011	104	62.22	236	35.336	105	57.54	78
17	24.62	21	38.78	259	59.490	159	62.38	207	44.115	161	59.86	213	35.441	140	56.76	99
27	24.83	30	36.19	227	59.649	197	60.31	219	44.276	218	57.73	180	35.581	174	55.77	122
Okt. 7	25.13	38	33.92	186	59.846	236	58.12	230	44.494	275	55.93	138	35.755	210	54.55	144
17	25.51	45	32.06	136	60.082	274	55.82	235	44.769	326	54.55	89	35.965	246	53.11	164
27	25.96	52	30.70	78	60.356	310	53.47	235	45.095	372	53.66	33	36.211	277	51.47	183
Nov. 6	26.48	56	29.92	15	60.666	340	51.12	230	45.467	407	53.33	25	36.488	307	49.64	197
16	27.04	59	29.77	49	61.006	364	48.82	218	45.874	432	53.58	84	36.795	329	47.67	207
26	27.63	60	30.26	113	61.370	381	46.64	200	46.306	443	54.42	142	37.124	342	45.60	210
Dez. 6	28.23	60	31.39	175	61.751	385	44.64	175	46.749	440	55.84	196	37.466	347	43.50	208
16	28.83	56	33.14	232	62.136	379	42.89	145	47.189	423	57.80	245	37.813	341	41.42	198
26	29.39	51	35.46	281	62.515	362	41.44	110	47.612	393	60.25	286	38.154	325	39.44	182
36	29.90		38.27		62.877		40.34		48.005		63.11		38.479		37.62	
Mittl. Ort	27.33		38.42		58.680		65.45		45.155		60.23		34.785		57.59	
sec δ, tg δ	2.283		−2.053		1.167		+0.602		1.526		−1.152		1.018		+0.193	

Tag	415) *i* Velorum AR.		Dekl.		416) β Ursae maj. AR.		Dekl.		417) α Ursae maj. AR.		Dekl.		418) χ Leonis AR.		Dekl.	
1930	10h 56m		−41° 50′		10h 57m		+56° 44′		10h 59m		+62° 7′		11h 1m		+7° 42′	
Jan. 1	56.149	349	43.57	292	38.779	498	78.12	3	26.69	56	33.77	20	24.440	312	55.01	185
11	56.498	309	46.49	315	39.277	452	78.15	57	27.25	52	33.97	76	24.752	282	53.16	163
21	56.807	259	49.64	328	39.729	391	78.72	108	27.77	45	34.73	128	25.034	245	51.53	139
31	57.066	205	52.92	333	40.120	320	79.80	153	28.22	36	36.01	175	25.279	202	50.14	110
Feb. 10	57.271	149	56.25	330	40.440	242	81.33	191	28.58	27	37.76	212	25.481	156	49.04	81
20	57.420	92	59.55	319	40.682	159	83.24	219	28.85	18	39.88	240	25.637	109	48.23	54
März 2	(7) 57.512	39	62.74	302	(7) 40.841	76	85.43	238	(7) 29.03	8	42.28	257	(8) 25.746	64	47.69	27
11	57.551	10	65.76	278	40.917	2	87.81	246	29.11	1	44.85	262	25.810	23	47.42	3
21	57.541	54	68.54	250	40.915	72	90.27	241	29.10	9	47.47	257	25.833	14	47.39	17
31	57.487	91	71.04	219	40.843	134	92.68	228	29.01	17	50.04	241	25.819	44	47.56	32
Apr. 10	57.396	121	73.23	183	40.709	183	94.96	206	28.84	22	52.45	215	25.775	67	47.88	45
20	57.275	144	75.06	146	40.526	221	97.02	176	28.62	27	54.60	182	25.708	85	48.33	54
30	57.131	161	76.52	107	40.305	246	98.78	140	28.35	31	56.42	142	25.623	96	48.87	58
Mai 10	56.970	173	77.59	66	40.059	260	100.18	99	28.04	32	57.84	97	25.527	101	49.45	61
20	56.797	177	78.25	24	39.799	263	101.17	55	27.72	33	58.81	51	25.426	102	50.06	61
30	56.620	178	78.49	16	39.536	256	101.72	11	27.39	32	59.32	3	25.324	99	50.67	59
Juni 9	56.442	174	78.33	57	39.280	240	101.83	35	27.07	30	59.35	46	25.225	92	51.26	55
19	56.268	164	77.76	95	39.040	217	101.48	78	26.77	27	58.89	93	25.133	82	51.81	50
29	56.104	150	76.81	130	38.823	188	100.70	121	26.50	25	57.96	137	25.051	71	52.31	42
Juli 9	55.954	130	75.51	161	38.635	154	99.49	161	26.25	20	56.59	179	24.980	55	52.73	33
19	55.824	107	73.90	188	38.481	115	97.88	197	26.05	15	54.80	217	24.925	39	53.06	23
29	55.717	78	72.02	209	38.366	73	95.91	229	25.90	10	52.63	250	24.886	19	53.29	11
Aug. 8	55.639	45	69.93	221	38.293	26	93.62	257	25.80	5	50.13	279	24.867	3	53.40	4
18	55.594	5	67.72	226	38.267	23	91.05	281	25.75	1	47.34	302	24.870	28	53.36	21
28	55.589	38	65.46	222	38.290	76	88.24	300	25.76	7	44.32	320	24.898	56	53.15	39
Sept. 7	55.627	85	63.24	209	38.366	130	85.24	313	25.83	14	41.12	332	24.954	88	52.76	61
17	55.712	135	61.15	187	38.496	188	82.11	320	25.97	21	37.80	338	25.042	122	52.15	83
27	55.847	187	59.28	156	38.684	246	78.91	323	26.18	27	34.42	337	25.164	157	51.32	107
Okt. 7	56.034	237	57.72	116	38.930	305	75.68	317	26.45	34	31.05	330	25.321	194	50.25	131
17	56.271	286	56.56	70	39.235	363	72.51	306	26.79	41	27.75	314	25.515	231	48.94	154
27	56.557	329	55.86	19	39.598	415	69.45	287	27.20	47	24.61	292	25.746	265	47.40	175
Nov. 6	56.886	364	55.67	35	40.013	463	66.58	260	27.67	52	21.69	262	26.011	296	45.65	193
16	57.250	391	56.02	91	40.476	502	63.98	226	28.19	57	19.07	224	26.307	321	43.72	206
26	57.641	406	56.93	144	40.978	528	61.72	186	28.76	60	16.83	180	26.628	337	41.66	214
Dez. 6	58.047	407	58.37	194	41.506	541	59.86	139	29.36	61	15.03	129	26.965	344	39.52	215
16	58.454	397	60.31	238	42.047	538	58.47	87	29.97	61	13.74	75	27.309	341	37.37	209
26	58.851	372	62.69	275	42.585	518	57.60	33	30.58	59	12.99	17	27.650	328	35.28	197
36	59.223		65.44		43.103		57.27		31.17		12.82		27.978		33.31	
Mittl. Ort	56.313		60.55		37.821		88.73		25.43		45.24		24.457		53.34	
sec δ, tg δ	1.342		−0.896		1.824		+1.526		2.139		+1.891		1.009		+0.135	

Tag	420) ψ Ursae maj. AR.	Diff.	420) ψ Ursae maj. Dekl.	Diff.	421) β Crateris AR.	Diff.	421) β Crateris Dekl.	Diff.	422) δ Leonis AR.	Diff.	422) δ Leonis Dekl.	Diff.	423) ϑ Leonis AR.	Diff.	423) ϑ Leonis Dekl.	Diff.
1930	11h 5m		+44° 52′		11h 8m		−22° 26′		11h 10m		+20° 54′		11h 10m		+15° 48′	
Jan. 1	44.650	411	34.08	52	12.547	319	24.59	263	23.382	335	24.21	144	34.142	326	43.68	162
11	45.061	375	33.56	2	12.866	287	27.22	269	23.717	305	22.77	111	34.468	297	42.06	133
21	45.436	328	33.54	47	13.153	247	29.91	270	24.022	268	21.66	76	34.765	261	40.73	101
31	45.764	272	34.01	91	13.400	203	32.61	262	24.290	224	20.90	40	35.026	217	39.72	68
Febr. 10	46.036	211	34.92	130	13.603	156	35.23	248	24.514	176	20.50	6	35.243	171	39.04	36
20	46.247	146	36.22	162	13.759	109	37.71	230	24.690	126	20.44	25	35.414	123	38.68	5
März 2	46.393	82	37.84	185	13.868	63	40.01	209	24.816	78	20.69	53	35.537	76	38.63	22
11	46.475	22	39.69	199	13.931	21	42.10	183	24.894	33	21.22	75	35.613	33	38.85	45
21	46.497	34	41.68	203	13.952	16	43.93	157	24.927	7	21.97	90	35.646	5	39.30	63
31	46.463	80	43.71	199	13.936	47	45.50	130	24.920	40	22.87	100	35.641	38	39.93	75
April 10	46.383	117	45.70	185	13.889	72	46.80	101	24.880	68	23.87	105	35.603	64	40.68	83
20	46.266	147	47.55	165	13.817	91	47.81	73	24.812	88	24.92	103	35.539	83	41.51	85
30	46.119	166	49.20	139	13.726	105	48.54	44	24.724	101	25.95	97	35.456	96	42.36	83
Mai 10	45.953	176	50.59	107	13.621	113	48.98	17	24.623	108	26.92	87	35.360	103	43.19	79
20	45.777	180	51.66	73	13.508	117	49.15	10	24.515	111	27.79	75	35.257	105	43.98	71
30	45.597	176	52.39	37	13.391	117	49.05	37	24.404	109	28.54	59	35.152	103	44.69	61
Juni 9	45.421	165	52.76	1	13.274	113	48.68	61	24.295	102	29.13	42	35.049	98	45.30	48
19	45.256	150	52.75	38	13.161	107	48.07	84	24.193	93	29.55	24	34.951	88	45.78	35
29	45.106	131	52.37	74	13.054	96	47.23	105	24.100	81	29.79	6	34.863	77	46.13	20
Juli 9	44.975	107	51.63	110	12.958	83	46.18	121	24.019	65	29.85	15	34.786	62	46.33	5
19	44.868	80	50.53	143	12.875	66	44.97	133	23.954	48	29.70	35	34.724	46	46.38	12
29	44.788	50	49.10	173	12.809	46	43.64	142	23.906	27	29.35	56	34.678	27	46.26	30
Aug. 8	44.738	16	47.37	202	12.763	21	42.22	145	23.879	4	28.79	76	34.651	4	45.96	49
18	44.722	19	45.35	226	12.742	7	40.77	141	23.875	21	28.03	98	34.647	21	45.47	68
28	44.741	59	43.09	248	12.749	39	39.36	132	23.896	51	27.05	118	34.668	50	44.79	89
Sept. 7	44.800	101	40.61	265	12.788	74	38.04	115	23.947	83	25.87	140	34.718	80	43.90	110
17	44.901	146	37.96	279	12.862	114	36.89	92	24.030	118	24.47	161	34.798	115	42.80	131
27	45.047	192	35.17	287	12.976	154	35.97	62	24.148	156	22.86	180	34.913	153	41.49	153
Okt. 7	45.239	240	32.30	291	13.130	196	35.35	27	24.304	194	21.06	198	35.066	190	39.96	173
17	45.479	288	29.39	289	13.326	237	35.08	11	24.498	234	19.08	212	35.256	228	38.23	191
27	45.767	332	26.50	279	13.563	275	35.19	53	24.732	270	16.96	223	35.484	265	36.32	206
Nov. 6	46.099	373	23.71	264	13.838	308	35.72	96	25.002	304	14.73	229	35.749	297	34.26	217
16	46.472	405	21.07	240	14.146	334	36.68	137	25.306	331	12.44	229	36.046	324	32.09	222
26	46.877	429	18.67	210	14.480	350	38.05	175	25.637	350	10.15	223	36.370	343	29.87	221
Dez. 6	47.306	442	16.57	172	14.830	356	39.80	209	25.987	361	7.92	209	36.713	352	27.66	213
16	47.748	442	14.85	130	15.186	351	41.89	236	26.348	360	5.83	190	37.065	352	25.53	199
26	48.190	427	13.55	83	15.537	336	44.25	255	26.708	348	3.93	164	37.417	340	23.54	179
36	48.617		12.72		15.873		46.80		27.056		2.29		37.757		21.75	
Mittl. Ort	44.163		42.88		12.766		35.92		23.324		26.94		34.137		44.85	
sec δ, tg δ	1.411		+0.996		1.082		−0.413		1.070		+0.382		1.039		+0.283	

Scheinbare Sternörter 1928

Tag	425) ν Ursae maj. AR.		Dekl.		426) δ Crateris AR.		Dekl.		427) σ Leonis AR.		Dekl.		428) π Centauri AR.		Dekl.	
1930	11ʰ 14ᵐ		+33° 28′		11ʰ 15ᵐ		−14° 23′		11ʰ 17ᵐ		+6° 24′		11ʰ 17ᵐ		−54° 6′	
Jan. 1	42.396	367	28.83	102	50.117	316	49.65	245	31.564	319	49.26	194	48.107	429	6.03	277
11	42.763	337	27.81	59	50.433	287	52.10	245	31.883	291	47.32	173	48.536	383	8.80	311
21	43.100	297	27.22	15	50.720	251	54.55	237	32.174	257	45.59	149	48.919	328	11.91	337
31	43.397	249	27.07	27	50.971	208	56.92	225	32.431	216	44.10	122	49.247	265	15.28	353
Feb. 10	43.646	196	27.34	65	51.179	163	59.17	208	32.647	171	42.88	92	49.512	198	18.81	360
20	43.842	141	27.99	98	51.342	118	61.25	186	32.818	125	41.96	64	49.710	132	22.41	358
März 2	43.983	88	28.97	125	51.460	73	63.11	162	32.943	80	41.32	36	49.842	67	25.99	349
11*)	44.071	36	30.22	145	51.533	33	64.73	138	33.023	39	40.96	12	49.909	5	29.48	331
21	44.107	9	31.67	156	51.566	3	66.11	112	33.062	2	40.84	9	49.914	51	32.79	309
31	44.098	49	33.23	159	51.563	34	67.23	87	33.064	29	40.93	27	49.863	99	35.88	280
Apr. 10	44.049	82	34.82	155	51.529	59	68.10	63	33.035	53	41.20	41	49.764	142	38.68	246
20	43.967	105	36.37	144	51.470	77	68.73	39	32.982	73	41.61	50	49.622	178	41.14	208
30	43.862	123	37.81	128	51.393	91	69.12	16	32.909	86	42.11	57	49.444	205	43.22	167
Mai 10	43.739	132	39.09	107	51.302	100	69.28	5	32.823	94	42.68	61	49.239	228	44.89	123
20	43.607	135	40.16	83	51.202	104	69.23	25	32.729	97	43.29	62	49.011	242	46.12	77
30	43.472	134	40.99	56	51.098	105	68.98	44	32.632	97	43.91	60	48.769	250	46.89	30
Juni 9	43.338	128	41.55	27	50.993	102	68.54	61	32.535	93	44.51	58	48.519	252	47.19	17
19	43.210	117	41.82	2	50.891	96	67.93	76	32.442	86	45.09	53	48.267	246	47.02	64
29	43.093	102	41.80	31	50.795	87	67.17	90	32.356	77	45.62	46	48.021	235	46.38	107
Juli 9	42.991	85	41.49	61	50.708	75	66.27	99	32.279	64	46.08	38	47.786	215	45.31	148
19	42.906	65	40.88	89	50.633	60	65.28	106	32.215	50	46.46	28	47.571	189	43.83	185
29	42.841	41	39.99	116	50.573	42	64.22	109	32.165	32	46.74	16	47.382	154	41.98	215
Aug. 8	42.800	16	38.83	142	50.531	20	63.13	107	32.133	11	46.90	2	47.228	113	39.83	238
18	42.784	14	37.41	166	50.511	5	62.06	101	32.122	13	46.92	14	47.115	64	37.45	252
28	42.798	46	35.75	190	50.516	35	61.05	88	32.135	40	46.78	33	47.051	7	34.93	258
Sept. 7	42.844	82	33.85	210	50.551	68	60.17	70	32.175	72	46.45	54	47.044	54	32.35	254
17	42.926	121	31.75	227	50.619	105	59.47	48	32.247	105	45.91	77	47.098	119	29.81	238
27	43.047	162	29.48	243	50.724	144	58.99	19	32.352	141	45.14	101	47.217	187	27.43	214
Okt. 7	43.209	204	27.05	254	50.868	184	58.80	13	32.493	180	44.13	126	47.404	254	25.29	178
17	43.413	247	24.51	260	51.052	223	58.93	47	32.673	218	42.87	150	47.658	318	23.51	134
27	43.660	287	21.91	261	51.275	261	59.40	85	32.891	254	41.37	172	47.976	376	22.17	83
Nov. 6	43.947	325	19.30	256	51.536	294	60.25	121	33.145	287	39.65	192	48.352	424	21.34	26
16	44.272	355	16.74	244	51.830	320	61.46	155	33.432	315	37.73	207	48.776	460	21.08	33
26	44.627	378	14.30	225	52.150	339	63.01	186	33.747	333	35.66	216	49.236	483	21.41	93
Dez. 6	45.005	390	12.05	199	52.489	347	64.87	211	34.080	344	33.50	219	49.719	489	22.34	151
16	45.395	392	10.06	166	52.836	344	66.98	231	34.424	343	31.31	215	50.208	480	23.85	205
26	45.787	380	8.40	129	53.180	331	69.29	242	34.767	332	29.16	204	50.688	455	25.90	252
36	46.167		7.11		53.511		71.71		35.099		27.12		51.143		28.42	
Mittl. Ort	42.194		35.30		50.350		58.28		31.677		47.62		48.473		25.95	
sec δ, tg δ	1.199		+0.661		1.032		−0.257		1.006		+0.112		1.706		−1.382	

*) Bei Stern 426), 427 und 428) lies März 12.

Tag	429) Grb 1771 AR.		429) Grb 1771 Dekl.		433) λ Draconis AR.		433) λ Draconis Dekl.		434) ξ Hydrae AR.		434) ξ Hydrae Dekl.		436) λ Centauri AR.		436) λ Centauri Dekl.	
1930	11h 18m		+64° 42′		11h 27m		+69° 42′		11h 29m		−31° 27′		11h 32m		−62° 37′	
Jan. 1	44.00s	62	37.09″	5	17.83s	75	49.48″	9	32.877s	345	58.65″	264	31.98s	53	35.07″	255
11	44.62	59	37.14	64	18.58	70	49.57	70	33.222	315	61.29	281	32.51	48	37.62	298
21	45.21	51	37.78	119	19.28	61	50.27	128	33.537	276	64.10	290	32.99	41	40.60	331
31	45.72	42	38.97	169	19.89	52	51.55	179	33.813	232	67.00	291	33.40	34	43.91	355
Feb. 10	46.14	33	40.66	211	20.41	41	53.34	223	34.045	183	69.91	286	33.74	26	47.46	369
20	46.47	23	42.77	243	20.82	29	55.57	255	34.228	134	72.77	274	34.00	18	51.15	375
März 2	46.70	12	45.20	264	21.11	17	58.12	277	34.362	87	75.51	256	34.18	10	54.90	371
12	46.82	3	47.84	273	21.28	4	60.89	286	34.449	42	78.07	235	34.28	3	58.61	360
21	[12] 46.85	7	50.57	270	[14] 21.32	8	63.75	283	[15] 34.491	2	80.42	210	[16] 34.31	5	62.21	342
31	46.78	16	53.27	257	21.24	18	66.58	270	34.493	33	82.52	183	34.26	12	65.63	317
Apr. 10	46.62	22	55.84	234	21.06	28	69.28	245	34.460	62	84.35	153	34.14	17	68.80	286
20	46.40	28	58.18	202	20.78	35	71.73	211	34.398	86	85.88	122	33.97	22	71.66	250
30	46.12	32	60.20	162	20.43	41	73.84	171	34.312	104	87.10	90	33.75	26	74.16	209
Mai 10	45.80	35	61.82	118	20.02	45	75.55	124	34.208	118	88.00	58	33.49	30	76.25	165
20	45.45	37	63.00	71	19.57	47	76.79	75	34.090	127	88.58	25	33.19	32	77.90	117
30	45.08	36	63.71	21	19.10	47	77.54	22	33.963	133	88.83	8	32.87	34	79.07	68
Juni 9	44.72	35	63.92	30	18.63	47	77.76	31	33.830	133	88.75	39	32.53	35	79.75	17
19	44.37	33	63.62	79	18.16	44	77.45	82	33.697	130	88.36	70	32.18	35	79.92	34
29	44.04	30	62.83	126	17.72	41	76.63	132	33.567	124	87.66	98	31.83	34	79.58	82
Juli 9	43.74	26	61.57	171	17.31	36	75.31	179	33.443	113	86.68	123	31.49	31	78.76	129
19	43.48	22	59.86	212	16.95	31	73.52	222	33.330	98	85.45	143	31.18	29	77.47	172
29	43.26	16	57.74	249	16.64	24	71.30	260	33.232	78	84.02	160	30.89	25	75.75	209
Aug. 8	43.10	11	55.25	280	16.40	17	68.70	293	33.154	54	82.42	171	30.64	19	73.66	239
18	42.99	4	52.45	307	16.23	10	65.77	321	33.100	25	80.71	175	30.45	13	71.27	260
28	42.95	2	49.38	328	16.13	1	62.56	342	33.075	10	78.96	170	30.32	6	68.67	273
Sept. 7	42.97	10	46.10	343	16.12	8	59.14	357	33.085	49	77.26	160	30.26	2	65.94	276
17	43.07	17	42.67	351	16.20	16	55.57	365	33.134	92	75.66	141	30.28	10	63.18	267
27	43.24	25	39.16	352	16.36	26	51.92	367	33.226	138	74.25	115	30.38	19	60.51	247
Okt. 7	43.49	32	35.64	347	16.62	36	48.25	359	33.364	185	73.10	81	30.57	28	58.04	216
17	43.81	39	32.17	334	16.98	45	44.66	344	33.549	232	72.29	41	30.85	37	55.88	176
27	44.20	47	28.83	312	17.43	53	41.22	322	33.781	275	71.88	2	31.22	44	54.12	127
Nov. 6	44.67	54	25.71	283	17.96	61	38.00	290	34.056	314	71.90	49	31.66	50	52.85	71
16	45.21	58	22.88	245	18.57	69	35.10	251	34.370	345	72.39	96	32.16	55	52.14	10
26	45.79	63	20.43	200	19.26	74	32.59	204	34.715	366	73.35	141	32.71	58	52.04	52
Dez. 6	46.42	65	18.43	149	20.00	76	30.55	150	35.081	376	74.76	184	33.29	59	52.56	113
16	47.07	66	16.94	93	20.76	78	29.05	92	35.457	375	76.60	220	33.88	59	53.69	173
26	47.73	64	16.01	34	21.54	77	28.13	31	35.832	362	78.80	250	34.47	56	55.42	227
36	48.37		15.67		22.31		27.82		36.194		81.30		35.03		57.69	
Mittl. Ort	42.74		49.93		16.20		63.30		33.282		72.53		32.56		56.64	
sec δ, tg δ	2.341		+2.117		2.885		+2.706		1.172		−0.612		2.175		−1.932	

Scheinbare Sternörter 1930

Tag	437) υ Leonis				440) 3 Draconis				441) γ Ursae maj.				444) β Leonis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	11h 33m		−0° 26′		11h 38m		+67° 7′		11h 42m		+48° 9′		11h 45m		+14° 57′	
Jan. 1	21.621	322	10.40	214	36.35	69	42.88	14	22.034	445	51.98	79	29.254	336	46.27	180
11	21.943	298	12.54	201	37.04	64	42.74	48	22.479	417	51.19	24	29.590	314	44.47	152
21	22.241	264	14.55	182	37.68	57	43.22	106	22.896	376	50.95	29	29.904	283	42.95	120
31	22.505	225	16.37	160	38.25	50	44.28	160	23.272	324	51.24	79	30.187	245	41.75	86
Feb. 10	22.730	183	17.97	134	38.75	39	45.88	206	23.596	265	52.03	126	30.432	201	40.89	51
20	22.913	139	19.31	107	39.14	29	47.94	241	23.861	201	53.29	164	30.633	156	40.38	18
März 2	23.052	95	20.38	80	39.43	18	50.35	267	24.062	135	54.93	194	30.789	111	40.20	13
12	23.147	54	21.18	55	39.61	7	53.02	280	24.197	70	56.87	215	30.900	68	40.33	38
21	23.201	18	21.73	31	39.68	4	55.82	282	24.267	10	59.02	225	30.968	28	40.71	60
31	23.219	14	22.04	10	39.64	13	58.64	272	24.277	43	61.27	225	30.996	5	41.31	76
Apr. 10	23.205	39	22.14	7	39.51	21	61.36	250	24.234	90	63.52	216	30.991	35	42.07	87
20	23.166	60	22.07	22	39.30	29	63.86	221	24.144	127	65.68	199	30.956	58	42.94	91
30	23.106	75	21.85	34	39.01	34	66.07	183	24.017	157	67.67	173	30.898	75	43.85	92
Mai 10	23.031	85	21.51	44	38.67	38	67.90	139	23.860	177	69.40	143	30.823	88	44.77	89
20	22.946	91	21.07	51	38.29	40	69.29	92	23.683	189	70.83	107	30.735	96	45.66	82
30	22.855	94	20.56	56	37.89	41	70.21	41	23.494	194	71.90	68	30.639	99	46.48	72
Juni 9	22.761	93	20.00	59	37.48	42	70.62	12	23.300	192	72.58	28	30.540	99	47.20	59
19	22.668	89	19.41	61	37.06	39	70.50	62	23.108	185	72.86	13	30.441	97	47.79	46
29	22.579	82	18.80	61	36.67	36	69.88	112	22.923	172	72.73	55	30.344	91	48.25	31
Juli 9	22.497	73	18.19	58	36.31	33	68.76	160	22.751	154	72.18	95	30.253	82	48.56	15
19	22.424	61	17.61	53	35.98	29	67.16	203	22.597	132	71.23	134	30.171	70	48.71	4
29	22.363	45	17.08	46	35.69	23	65.13	243	22.465	106	69.89	169	30.101	55	48.67	23
Aug. 8	22.318	26	16.62	36	35.46	17	62.70	279	22.359	74	68.20	203	30.046	37	48.44	42
18	22.292	3	16.26	22	35.29	11	59.91	308	22.285	39	66.17	233	30.009	14	48.02	62
28	22.289	23	16.04	6	35.18	3	56.83	332	22.246	0	63.84	260	29.995	12	47.40	85
Sept. 7	22.312	54	15.98	14	35.15	4	53.51	350	22.246	44	61.24	282	30.007	42	46.55	107
17	22.366	88	16.12	36	35.19	12	50.01	361	22.290	91	58.42	299	30.049	77	45.48	130
27	22.454	126	16.48	62	35.31	21	46.40	366	22.381	142	55.43	313	30.126	114	44.18	153
Okt. 7	22.580	164	17.10	89	35.52	29	42.74	362	22.523	194	52.30	319	30.240	155	42.65	174
17	22.744	205	17.99	117	35.81	38	39.12	350	22.717	249	49.11	319	30.395	195	40.91	195
27	22.949	243	19.16	144	36.19	46	35.62	331	22.966	302	45.92	312	30.590	236	38.96	211
Nov. 6	23.192	277	20.60	169	36.65	54	32.31	303	23.268	350	42.80	298	30.826	272	36.85	224
16	23.469	306	22.29	190	37.19	60	29.28	267	23.618	393	39.82	275	31.098	305	34.61	232
26	23.775	328	24.19	208	37.79	65	26.61	222	24.011	427	37.07	246	31.403	330	32.29	234
Dez. 6	24.103	341	26.27	219	38.44	69	24.39	171	24.438	450	34.61	207	31.733	346	29.95	228
16	24.444	343	28.46	223	39.13	71	22.68	114	24.888	459	32.54	162	32.079	351	27.67	215
26	24.787	334	30.69	220	39.84	70	21.54	54	25.347	455	30.92	113	32.430	346	25.52	197
36	25.121		32.89		40.54		21.00		25.802		29.79		32.776		23.55	
Mittl. Ort	21.873		13.91		35.11		57.00		21.705		63.18		29.448		48.33	
sec δ, tg δ	1.000		−0.008		2.573		+2.371		1.499		+1.117		1.035		+0.267	

Tag	445) β Virginis AR.	Δ	Dekl.	Δ	447) γ Ursae maj. AR.	Δ	Dekl.	Δ	450) ο Virginis AR.	Δ	Dekl.	Δ	452) δ Centauri AR.	Δ	Dekl.	Δ
1930	11h 47m		+2° 9′		11h 50m		+54° 4′		12h 1m		+9° 6′		12h 4m		−50° 19′	
Jan. 1	2.627	329	35.39	211	9.897	494	49.34	69	38.307	335	77.29	199	42.446	443	38.78	233
11	2.956	307	33.28	196	10.391	466	48.65	12	38.642	316	75.30	177	42.889	412	41.11	270
21	3.263	276	31.32	174	10.857	423	48.53	45	38.958	287	73.53	149	43.301	371	43.81	299
31	3.539	239	29.58	150	11.280	368	48.98	99	39.245	252	72.04	119	43.672	321	46.80	320
Feb. 10	3.778	197	28.08	122	11.648	303	49.97	146	39.497	211	70.85	87	43.993	265	50.00	331
20	3.975	154	26.86	94	11.951	231	51.43	187	39.708	169	69.98	54	44.258	207	53.31	335
März 2	4.129	110	25.92	66	12.182	158	53.30	217	39.877	126	69.44	25	44.465	149	56.66	332
12	4.239	70	25.26	41	12.340	85	55.47	238	40.003	84	69.19	3	44.614	93	59.98	321
21*)	[19] 4.309	33	24.85	17	[20] 12.425	16	57.85	248	[23] 40.087	45	69.22	27	[24] 44.707	40	63.19	304
31	4.342	1	24.68	4	12.441	47	60.33	247	40.132	13	69.49	45	44.747	8	66.23	283
Apr. 10	4.343	26	24.72	21	12.394	102	62.80	235	40.145	17	69.94	59	44.739	52	69.06	255
20	4.317	48	24.93	34	12.292	147	65.15	216	40.128	41	70.53	70	44.687	90	71.61	225
30	4.269	65	25.27	44	12.145	184	67.31	187	40.087	60	71.23	75	44.597	123	73.86	190
Mai 10	4.204	77	25.71	51	11.961	209	69.18	153	40.027	74	71.98	77	44.474	152	75.76	152
20	4.127	85	26.22	56	11.752	226	70.71	113	39.953	84	72.75	75	44.322	175	77.28	112
30	4.042	90	26.78	59	11.526	235	71.84	71	39.869	90	73.50	71	44.147	193	78.40	70
Juni 9	3.952	91	27.37	59	11.291	235	72.55	27	39.779	94	74.21	64	43.954	205	79.10	26
19	3.861	89	27.96	58	11.056	228	72.82	19	39.685	94	74.85	56	43.749	212	79.36	17
29	3.772	84	28.54	54	10.828	214	72.63	63	39.591	91	75.41	46	43.537	214	79.19	59
Juli 9	3.688	77	29.08	49	10.614	196	72.00	108	39.500	86	75.87	33	43.323	207	78.60	99
19	3.611	67	29.57	42	10.418	171	70.92	149	39.414	77	76.20	19	43.116	195	77.61	137
29	3.544	53	29.99	33	10.247	141	69.43	188	39.337	64	76.39	5	42.921	174	76.24	170
Aug. 8	3.491	35	30.32	21	10.106	106	67.55	224	39.273	49	76.44	12	42.747	145	74.54	198
18	3.456	14	30.53	6	10.000	67	65.31	256	39.224	28	76.32	30	42.602	109	72.56	217
28	3.442	12	30.59	10	9.933	22	62.75	282	39.196	3	76.02	51	42.493	63	70.39	230
Sept. 7	3.454	42	30.49	31	9.911	28	59.93	306	39.193	26	75.51	72	42.430	10	68.09	233
17	3.496	77	30.18	54	9.939	81	56.87	323	39.219	60	74.79	95	42.420	49	65.76	226
27	3.573	113	29.64	79	10.020	138	53.64	335	39.279	97	73.84	119	42.469	112	63.50	211
Okt. 7	3.686	153	28.85	104	10.158	198	50.29	340	39.376	138	72.65	143	42.581	178	61.39	184
17	3.839	194	27.81	130	10.356	259	46.89	337	39.514	179	71.22	166	42.759	243	59.55	149
27	4.033	233	26.51	156	10.615	319	43.52	329	39.693	220	69.56	188	43.002	306	58.06	106
Nov. 6	4.266	270	24.95	180	10.934	374	40.23	310	39.913	259	67.68	206	43.308	361	57.00	56
16	4.536	301	23.15	199	11.308	424	37.13	284	40.172	292	65.62	220	43.669	407	56.44	3
26	4.837	325	21.16	213	11.732	463	34.29	250	40.464	320	63.42	227	44.076	442	56.41	52
Dez. 6	5.162	341	19.03	222	12.195	491	31.79	208	40.784	338	61.15	229	44.518	463	56.93	107
16	5.503	345	16.81	223	12.686	505	29.71	159	41.122	346	58.86	224	44.981	468	58.00	160
26	5.848	339	14.58	219	13.191	503	28.12	106	41.468	343	56.62	211	45.449	460	59.60	208
36	6.187		12.39		13.694		27.06		41.811		54.51		45.909		61.68	
Mittl. Ort	2.938		33.15		9.454		62.04		38.644		77.90		43.306		57.33	
sec δ, tg δ	1.001		+0.038		1.705		+1.381		1.013		+0.161		1.567		−1.206	

*) Bei Stern 450) und 452) lies März 22

Tag	453) ε Corvi AR.		Dekl.		454) 4 H. Draconis AR.		Dekl.		456) δ Ursae maj. AR.		Dekl.		459) β Chamael. AR.		Dekl.	
1930	12ʰ 6ᵐ		−22° 13′		12ʰ 8ᵐ		+77° 59′		12ʰ 11ᵐ		+57° 24′		12ʰ 14ᵐ		−78° 55′	
Jan. 1	30.656	346	39.57	238	58.80	120	62.28	25	58.617	532	62.84	87	9.85	122	1.76	177
11	31.002	325	41.95	249	60.00	115	62.03	40	59.149	510	61.97	25	11.07	113	3.53	232
21	31.327	294	44.44	252	61.15	106	62.43	103	59.659	471	61.72	34	12.20	101	5.85	280
31	31.621	258	46.96	248	62.21	93	63.46	162	60.130	417	62.06	91	13.21	88	8.65	319
Feb. 10	31.879	216	49.44	240	63.14	78	65.08	211	60.547	353	62.97	143	14.09	72	11.84	350
20	32.095	173	51.84	225	63.92	61	67.19	252	60.900	281	64.40	188	14.81	56	15.34	372
März 2	32.268	130	54.09	207	64.53	40	69.71	282	61.181	203	66.28	223	15.37	38	19.06	385
12	32.398	89	56.16	186	64.93	21	72.53	299	61.384	124	68.51	247	15.75	21	22.91	390
22	32.487	50	58.02	163	65.14	1	75.52	304	61.508	48	70.98	261	15.96	4	26.81	385
31	32.537	16	59.65	139	65.15	19	78.56	296	61.556	22	73.59	263	16.00	13	30.66	373
Apr. 10	32.553	14	61.04	114	64.96	36	81.52	277	61.534	86	76.22	255	15.87	29	34.39	354
20	32.539	38	62.18	90	64.60	51	84.29	248	61.448	140	78.77	236	15.58	43	37.93	327
30	32.501	60	63.08	65	64.09	64	86.77	209	61.308	185	81.13	209	15.15	56	41.20	294
Mai 10	32.441	76	63.73	40	63.45	74	88.86	165	61.123	220	83.22	175	14.59	69	44.14	254
20	32.365	90	64.13	16	62.71	82	90.51	114	60.903	245	84.97	136	13.90	79	46.68	210
30	32.275	100	64.29	7	61.89	86	91.65	61	60.658	262	86.33	92	13.11	87	48.78	161
Juni 9	32.175	106	64.22	30	61.03	88	92.26	6	60.396	268	87.25	46	12.24	93	50.39	109
19	32.069	109	63.92	51	60.15	88	92.32	51	60.128	268	87.71	2	11.31	97	51.48	54
29	31.960	109	63.41	71	59.27	85	91.81	105	59.860	259	87.69	50	10.34	98	52.02	1
Juli 9	31.851	106	62.70	89	58.42	79	90.76	156	59.601	243	87.19	96	9.36	96	52.01	56
19	31.745	98	61.81	103	57.63	72	89.20	205	59.358	222	86.23	141	8.40	91	51.45	110
29	31.647	86	60.78	114	56.91	63	87.15	249	59.136	194	84.82	183	7.49	83	50.35	159
Aug. 8	31.561	69	59.64	120	56.28	53	84.66	288	58.942	159	82.99	223	6.66	73	48.76	203
18	31.492	46	58.44	122	55.75	41	81.78	321	58.783	118	80.76	258	5.93	59	46.73	241
28	31.446	19	57.22	118	55.34	28	78.57	349	58.665	72	78.18	289	5.34	43	44.32	271
Sept. 7	31.427	15	56.04	108	55.06	15	75.08	369	58.593	20	75.29	314	4.91	24	41.61	289
17	31.442	53	54.96	91	54.91	1	71.39	383	58.573	38	72.15	334	4.67	4	38.72	298
27	31.495	96	54.05	69	54.92	17	67.56	388	58.611	100	68.81	348	4.63	18	35.74	295
Okt. 7	31.591	140	53.36	40	55.09	33	63.68	386	58.711	165	65.33	356	4.81	39	32.79	279
17	31.731	186	52.96	7	55.42	48	59.82	375	58.876	233	61.77	356	5.20	59	30.00	252
27	31.917	232	52.89	29	55.90	64	56.07	355	59.109	300	58.21	347	5.79	79	27.48	214
Nov. 6	32.149	273	53.18	68	56.54	80	52.52	327	59.409	364	54.74	331	6.58	97	25.34	166
16	32.422	308	53.86	107	57.34	93	49.25	289	59.773	423	51.43	305	7.55	110	23.68	110
26	32.730	336	54.93	144	58.27	104	46.36	244	60.196	471	48.38	271	8.65	120	22.58	50
Dez. 6	33.066	354	56.37	178	59.31	113	43.92	189	60.667	508	45.67	228	9.85	126	22.08	15
16	33.420	361	58.15	206	60.44	118	42.03	130	61.175	530	43.39	179	11.11	128	22.23	79
26	33.781	357	60.21	229	61.62	120	40.73	67	61.705	536	41.60	123	12.39	126	23.02	141
36	34.138		62.50		62.82		40.06		62.241		40.37		13.65		24.43	
Mittl. Ort	31.265		49.76		56.49		78.62		58.250		77.01		12.10		25.05	
sec δ, tg δ	1.080		−0.409		4.812		+4.707		1.857		+1.565		5.205		−5.108	

Tag	460) η Virginis				462) α Crucis med.				466) 20 Comae				465) δ Corvi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	12h 16m		−0° 16′		12h 22m		−62° 42′		12h 26m		+21° 16′		12h 26m		−16° 7′	
Jan. 1	18.933s	335	38.31″	217	40.38s	59	21.45″	197	12.020s	355	55.11″	187	13.679s	344	25.72″	228
11	19.268	318	40.48	205	40.97	55	23.42	244	12.375	340	53.24	152	14.023	327	28.00	232
21	19.586	291	42.53	186	41.52	50	25.86	284	12.715	315	51.72	113	14.350	301	30.32	231
31	19.877	258	44.39	163	42.02	44	28.70	316	13.030	282	50.59	73	14.651	268	32.63	223
Feb. 10	20.135	219	46.02	137	42.46	37	31.86	339	13.312	244	49.86	32	14.919	231	34.86	210
20	20.354	180	47.39	110	42.83	30	35.25	354	13.556	200	49.54	7	15.150	190	36.96	193
März 2	20.534	138	48.49	82	43.13	22	38.79	360	13.756	156	49.61	43	15.340	150	38.89	173
12	20.672	99	49.31	56	43.35	15	42.39	358	13.912	112	50.04	73	15.490	109	40.62	150
22	20.771	61	49.87	31	43.50	7	45.97	350	14.024	71	50.77	98	15.599	72	42.12	128
31	[27] 20.832	28	50.18	9	[29] 43.57	1	49.47	333	[29] 14.095	34	51.75	115	[29] 15.671	38	43.40	105
Apr. 10	20.860	1	50.27	9	43.58	6	52.80	311	14.129	0	52.90	127	15.709	9	44.45	82
20	20.859	25	50.18	25	43.52	12	55.91	283	14.129	29	54.17	131	15.718	17	45.27	61
30	20.834	45	49.93	37	43.40	17	58.74	250	14.100	52	55.48	130	15.701	39	45.88	40
Mai 10	20.789	61	49.56	46	43.23	22	61.24	213	14.048	71	56.78	123	15.662	58	46.28	20
20	20.728	73	49.10	52	43.01	25	63.37	170	13.977	86	58.01	112	15.604	72	46.48	1
30	20.655	83	48.58	57	42.76	29	65.07	125	13.891	96	59.13	96	15.532	84	46.49	16
Juni 9	20.572	88	48.01	59	42.47	32	66.32	77	13.795	103	60.09	78	15.448	94	46.33	33
19	20.484	92	47.42	59	42.15	33	67.09	29	13.692	107	60.87	58	15.354	99	46.00	47
29	20.392	92	46.83	57	41.82	34	67.38	21	13.585	108	61.45	35	15.255	102	45.53	61
Juli 9	20.300	89	46.26	54	41.48	34	67.17	70	13.477	104	61.80	11	15.153	102	44.92	73
19	20.211	83	45.72	48	41.14	33	66.47	116	13.373	99	61.91	13	15.051	98	44.19	82
29	20.128	74	45.24	40	40.81	30	65.31	158	13.274	88	61.78	39	14.953	89	43.37	88
Aug. 8	20.054	59	44.84	31	40.51	26	63.73	196	13.186	73	61.39	64	14.864	76	42.49	90
18	19.995	41	44.53	17	40.25	21	61.77	226	13.113	54	60.75	89	14.788	58	41.59	89
28	19.954	17	44.36	1	40.04	15	59.51	249	13.059	31	59.86	116	14.730	32	40.70	83
Sept. 7	19.937	11	44.35	17	39.89	8	57.02	262	13.028	1	58.70	141	14.698	2	39.87	72
17	19.948	45	44.52	38	39.81	1	54.40	266	13.027	33	57.29	166	14.696	33	39.15	55
27	19.993	83	44.90	63	39.82	9	51.74	257	13.060	71	55.63	190	14.729	74	38.60	33
Okt. 7	20.076	123	45.53	88	39.91	19	49.17	239	13.131	113	53.73	211	14.803	118	38.27	7
17	20.199	166	46.41	116	40.10	28	46.78	209	13.244	158	51.62	230	14.921	163	38.20	22
27	20.365	208	47.57	142	40.38	37	44.69	170	13.402	202	49.32	246	15.084	208	38.42	56
Nov. 6	20.573	248	48.99	167	40.75	44	42.99	122	13.604	245	46.86	256	15.292	251	38.98	90
16	20.821	284	50.66	189	41.19	51	41.77	68	13.849	285	44.30	260	15.543	289	39.88	124
26	21.105	312	52.55	206	41.70	57	41.09	11	14.134	317	41.70	258	15.832	319	41.12	155
Dez. 6	21.417	333	54.61	218	42.27	59	40.98	50	14.451	341	39.12	248	16.151	340	42.67	182
16	21.750	342	56.79	223	42.86	61	41.48	109	14.792	356	36.64	231	16.491	351	44.49	205
26	22.092	342	59.02	222	43.47	61	42.57	165	15.148	359	34.33	205	16.842	352	46.54	222
36	22.434		61.24		44.08		44.22		15.507		32.28		17.194		48.76	
Mittl. Ort	19.433		40.55		41.72		42.27		12.389		60.58		14.368		33.27	
sec δ, tg δ	1.000		−0.005		2.181		−1.938		1.073		+0.390		1.041		−0.289	

Scheinbare Sternörter 1930

Tag	470) 8 Canum ven. AR.		470) Dekl.		472) κ Draconis AR.		472) Dekl.		471) β Corvi AR.		471) Dekl.		473) 24 Comae sq. AR.		473) Dekl.	
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
1930	12h 30m		+41° 43′		12h 30m		+70° 9′		12h 30m		−23° 0′		12h 31m		+18° 45′	
Jan. 1	25.239 s	414	63.56 ″	146	31.13 s	77	69.35 ″	76	41.549 s	355	25.75 ″	226	36.786 s	351	39.02 ″	194
11	25.653	399	62.10	95	31.90	76	68.59	11	41.904	338	28.01	239	37.137	337	37.08	161
21	26.052	373	61.15	41	32.66	71	68.48	53	42.242	312	30.40	244	37.474	314	35.47	125
31	26.425	335	60.74	13	33.37	64	69.01	115	42.554	278	32.84	243	37.788	282	34.22	86
Feb. 10	26.760	290	60.87	64	34.01	55	70.16	170	42.832	240	35.27	236	38.070	244	33.36	46
20	27.050	239	61.51	110	34.56	44	71.86	217	43.072	199	37.63	224	38.314	203	32.90	8
März 2	27.289	183	62.61	149	35.00	33	74.03	253	43.271	157	39.87	208	38.517	160	32.82	27
12	27.472	128	64.10	180	35.33	21	76.56	280	43.428	117	41.95	189	38.677	117	33.09	58
22	27.600	75	65.90	203	35.54	9	79.36	293	43.545	79	43.84	168	38.794	76	33.67	84
31	^{30}27.675	25	67.93	214	^{31}35.63	3	82.29	293	^{31}43.624	43	45.52	145	^{31}38.870	39	34.51	102
Apr. 10	27.700	20	70.07	218	35.60	14	85.22	284	43.667	12	46.97	122	38.909	7	35.53	116
20	27.680	59	72.25	211	35.46	24	88.06	262	43.679	15	48.19	98	38.916	21	36.69	122
30	27.621	91	74.36	197	35.22	31	90.68	232	43.664	38	49.17	75	38.895	45	37.91	122
Mai 10	27.530	118	76.33	176	34.91	39	93.00	194	43.626	59	49.92	52	38.850	64	39.13	118
20	27.412	138	78.09	148	34.52	44	94.94	149	43.567	75	50.44	28	38.786	80	40.31	108
30	27.274	152	79.57	116	34.08	47	96.43	101	43.492	89	50.72	6	38.706	91	41.39	95
Juni 9	27.122	161	80.73	81	33.61	50	97.44	48	43.403	100	50.78	17	38.615	99	42.34	80
19	26.961	166	81.54	44	33.11	50	97.92	5	43.303	107	50.61	38	38.516	103	43.14	61
29	26.795	165	81.98	4	32.61	50	97.87	58	43.196	112	50.23	57	38.413	105	43.75	41
Juli 9	26.630	159	82.02	35	32.11	47	97.29	110	43.084	112	49.66	76	38.308	103	44.16	19
19	26.471	150	81.67	74	31.64	45	96.19	160	42.972	109	48.90	91	38.205	98	44.35	3
29	26.321	135	80.93	112	31.19	40	94.59	207	42.863	101	47.99	104	38.107	89	44.32	27
Aug. 8	26.186	115	79.81	148	30.79	35	92.52	248	42.762	86	46.95	112	38.018	76	44.05	51
18	26.071	91	78.33	183	30.44	28	90.04	287	42.676	68	45.83	116	37.942	58	43.54	76
28	25.980	61	76.50	216	30.16	21	87.17	320	42.608	41	44.67	114	37.884	34	42.78	101
Sept. 7	25.919	25	74.34	244	29.95	13	83.97	346	42.567	10	43.53	108	37.850	6	41.77	126
17	25.894	16	71.90	269	29.82	4	80.51	365	42.557	28	42.45	94	37.844	27	40.51	151
27	25.910	63	69.21	291	29.78	5	76.86	379	42.585	70	41.51	74	37.871	65	39.00	176
Okt. 7	25.973	112	66.30	307	29.83	16	73.07	385	42.655	117	40.77	49	37.936	107	37.24	198
17	26.085	165	63.23	317	29.99	26	69.22	382	42.772	164	40.28	18	38.043	151	35.26	218
27	26.250	217	60.06	321	30.25	36	65.40	370	42.936	212	40.10	16	38.194	196	33.08	235
Nov. 6	26.467	269	56.85	318	30.61	47	61.70	349	43.148	256	40.26	54	38.390	239	30.73	248
16	26.736	317	53.67	306	31.08	56	58.21	319	43.404	296	40.80	91	38.629	278	28.25	254
26	27.053	357	50.61	286	31.64	64	55.02	280	43.700	328	41.71	128	38.907	312	25.71	254
Dez. 6	27.410	389	47.75	257	32.28	71	52.22	232	44.028	351	42.99	162	39.219	336	23.17	248
16	27.799	408	45.18	221	32.99	75	49.90	177	44.379	362	44.61	191	39.555	351	20.69	233
26	28.207	416	42.97	177	33.74	77	48.13	116	44.741	362	46.52	215	39.906	355	18.36	211
36	28.623		41.20		34.51		46.97		45.103		48.67		40.261		16.25	
Mittl. Ort	25.385		75.08		30.32		85.91		42.329		35.54		37.211		43.85	
sec δ, tg δ	1.340		+0.892		2.948		+2.774		1.086		−0.425		1.056		+0.340	

Tag	474) α Muscae				476) γ Centauri				478) 76 Ursae maj.				481) β Crucis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	12h 32m		−68° 44′		12h 37m		−48° 34′		12h 38m		+63° 5′		12h 43m		−59° 18′	
Jan. 1	57.65	72	39.27	173	37.584	449	15.02	201	31.20	61	33.76	105	35.493	551	3.59	177
11	58.37	68	41.00	225	38.033	428	17.03	238	31.81	59	32.71	42	36.044	527	5.36	223
21	59.05	62	43.25	269	38.461	394	19.41	270	32.40	57	32.29	22	36.571	488	7.59	263
31	59.67	56	45.94	306	38.855	353	22.11	292	32.97	51	32.51	83	37.059	438	10.22	295
Feb. 10	60.23	47	49.00	335	39.208	306	25.03	307	33.48	44	33.34	140	37.497	380	13.17	319
20	60.70	39	52.35	355	39.514	253	28.10	314	33.92	36	34.74	189	37.877	317	16.36	335
März 2	61.09	29	55.90	367	39.767	199	31.24	315	34.28	28	36.63	230	38.194	251	19.71	343
12	61.38	20	59.57	370	39.966	147	34.39	309	34.56	19	38.93	258	38.445	184	23.14	343
22	61.58	11	63.27	365	40.113	96	37.48	297	34.75	10	41.51	277	38.629	119	26.57	336
31*)	61.69	2	66.92	353	40.209	49	40.45	279	34.85	1	44.28	283	38.748	58	29.93	324
Apr. 10	61.71	6	70.45	334	40.258	4	43.24	257	34.86	7	47.11	277	38.806	1	33.17	304
20	61.65	14	73.79	309	40.262	36	45.81	231	34.79	14	49.88	261	38.805	55	36.21	279
30	61.51	21	76.88	278	40.226	72	48.12	201	34.65	20	52.49	236	38.750	106	39.00	250
Mai 10	61.30	28	79.66	241	40.154	104	50.13	168	34.45	26	54.85	203	38.644	151	41.50	215
20	61.02	33	82.07	200	40.050	133	51.81	132	34.19	29	56.88	162	38.493	191	43.65	177
30	60.69	38	84.07	154	39.917	157	53.13	94	33.90	32	58.50	118	38.302	227	45.42	135
Juni 9	60.31	42	85.61	105	39.760	177	54.07	54	33.58	34	59.68	69	38.075	255	46.77	91
19	59.89	44	86.66	55	39.583	191	54.61	14	33.24	35	60.37	19	37.820	276	47.68	45
29	59.45	46	87.21	3	39.392	200	54.75	27	32.89	35	60.56	32	37.544	291	48.13	2
Juli 9	58.99	46	87.24	48	39.192	203	54.48	66	32.54	34	60.24	83	37.253	296	48.11	49
19	58.53	45	86.76	99	38.989	198	53.82	105	32.20	32	59.41	131	36.957	291	47.62	94
29	58.08	42	85.77	146	38.791	186	52.77	138	31.88	29	58.10	178	36.666	274	46.68	136
Aug. 8	57.66	37	84.31	187	38.605	166	51.39	167	31.59	25	56.32	221	36.392	248	45.32	174
18	57.29	31	82.44	223	38.439	137	49.72	192	31.34	21	54.11	260	36.144	208	43.58	205
28	56.98	23	80.21	251	38.302	98	47.80	207	31.13	16	51.51	294	35.936	158	41.53	230
Sept. 7	56.75	14	77.70	270	38.204	50	45.73	216	30.97	10	48.57	323	35.778	96	39.23	245
17	56.61	3	75.00	278	38.154	3	43.57	216	30.87	3	45.34	347	35.682	24	36.78	251
27	56.58	8	72.22	275	38.157	64	41.41	205	30.84	4	41.87	364	35.658	55	34.27	247
Okt. 7	56.66	19	69.47	261	38.221	129	39.36	186	30.88	11	38.23	374	35.713	138	31.80	232
17	56.85	31	66.86	235	38.350	195	37.50	157	30.99	20	34.49	376	35.851	224	29.48	206
27	57.16	42	64.51	199	38.545	261	35.93	120	31.19	28	30.73	369	36.075	307	27.42	172
Nov. 6	57.58	53	62.52	154	38.806	320	34.73	76	31.47	36	27.04	353	36.382	383	25.70	127
16	58.11	61	60.98	101	39.126	373	33.97	28	31.83	43	23.51	329	36.765	450	24.43	78
26	58.72	67	59.97	43	39.499	414	33.69	24	32.26	50	20.22	295	37.215	503	23.65	23
Dez. 6	59.39	72	59.54	18	39.913	444	33.93	77	32.76	55	17.27	252	37.718	540	23.42	35
16	60.11	74	59.72	80	40.357	459	34.70	127	33.31	59	14.75	200	38.258	561	23.77	91
26	60.85	74	60.52	138	40.816	459	35.97	175	33.90	60	12.75	144	38.819	563	24.68	145
36	61.59		61.90		41.275		37.72		34.50		11.31		39.382		26.13	
Mittl. Ort	59.42		60.83		38.752		32.29		30.89		49.74		37.005		23.13	
sec δ, tg δ	2.759		−2.572		1.511		−1.133		2.210		+1.971		1.959		−1.685	

*) Bei Stern 476), 478) und 481) lies April 1

Scheinbare Sternörter 1930

Tag	482) *n* Centauri				483) ε Ursae maj.				484) δ Virginis				486) 8 Draconis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	12h 49m		−39° 47′		12h 50m		+56° 19′		12h 52m		+3° 46′		12h 52m		+65° 48′	
Jan. 1	31.957	407	40.74	200	57.294	517	66.76	136	3.914	339	38.37	215	41.94	66	47.76	117
11	32.364	392	42.74	231	57.811	508	65.40	76	4.253	329	36.22	200	42.60	65	46.59	52
21	32.756	365	45.05	254	58.319	483	64.64	14	4.582	309	34.22	177	43.25	62	46.07	12
31	33.121	330	47.59	271	58.802	443	64.50	47	4.891	281	32.45	152	43.87	57	46.19	75
Feb. 10	33.451	289	50.30	280	59.245	391	64.97	105	5.172	247	30.93	122	44.44	50	46.94	135
20	33.740	245	53.10	282	59.636	327	66.02	156	5.419	211	29.71	91	44.94	42	48.29	186
März 2	33.985	198	55.92	278	59.963	258	67.58	199	5.630	172	28.80	61	45.36	33	50.15	229
12	34.183	153	58.70	269	60.221	186	69.57	233	5.802	133	28.19	31	45.69	23	52.44	261
22	34.336	109	61.39	255	60.407	114	71.90	256	5.935	97	27.88	5	45.92	13	55.05	281
Apr. 1	34.445	68	63.94	237	60.521	43	74.46	268	6.032	63	27.83	17	46.05	4	57.86	290
10	34.513	29	66.31	216	60.564	21	77.14	267	6.095	31	28.00	35	46.09	6	60.76	287
20	34.542	5	68.47	191	60.543	80	79.81	258	6.126	5	28.35	50	46.03	14	63.63	273
30	34.537	37	70.38	165	60.463	131	82.39	239	6.131	18	28.85	61	45.89	21	66.36	248
Mai 10	34.500	65	72.03	136	60.332	174	84.78	210	6.113	39	29.46	66	45.68	27	68.84	216
20	34.435	90	73.39	105	60.158	208	86.88	175	6.074	56	30.12	70	45.41	32	71.00	177
30	34.345	112	74.44	72	59.950	235	88.63	136	6.018	70	30.82	70	45.09	36	72.77	131
Juni 9	34.233	130	75.16	39	59.715	254	89.99	92	5.948	82	31.52	68	44.73	39	74.08	83
19	34.103	144	75.55	5	59.461	263	90.91	45	5.866	90	32.20	63	44.34	40	74.91	32
29	33.959	155	75.60	29	59.198	267	91.36	4	5.776	96	32.83	57	43.94	40	75.23	20
Juli 9	33.804	159	75.31	61	58.931	263	91.32	51	5.680	99	33.40	48	43.54	40	75.03	72
19	33.645	159	74.70	92	58.668	252	90.81	99	5.581	98	33.88	39	43.14	38	74.31	123
29	33.486	151	73.78	120	58.416	235	89.82	145	5.483	93	34.27	26	42.76	35	73.08	171
Aug. 8	33.335	137	72.58	143	58.181	209	88.37	188	5.390	84	34.53	13	42.41	32	71.37	217
18	33.198	115	71.15	162	57.972	178	86.49	228	5.306	69	34.66	3	42.09	27	69.20	256
28	33.083	85	69.53	174	57.794	139	84.21	264	5.237	49	34.63	20	41.82	22	66.64	293
Sept. 7	32.998	47	67.79	179	57.655	92	81.57	296	5.188	24	34.43	41	41.60	15	63.71	324
17	32.951	1	66.00	175	57.563	39	78.61	323	5.164	8	34.02	62	41.45	8	60.47	350
27	32.950	50	64.25	165	57.524	20	75.38	344	5.172	45	33.40	86	41.37	0	56.97	369
Okt. 7	33.000	106	62.60	145	57.544	85	71.94	358	5.217	86	32.54	111	41.37	8	53.28	379
17	33.106	164	61.15	118	57.629	153	68.36	366	5.303	130	31.43	136	41.45	17	49.49	384
27	33.270	222	59.97	83	57.782	223	64.70	364	5.433	175	30.07	161	41.62	26	45.65	378
Nov. 6	33.492	276	59.14	42	58.005	292	61.06	355	5.608	218	28.46	183	41.88	35	41.87	364
16	33.768	325	58.72	1	58.297	356	57.51	337	5.826	258	26.63	202	42.23	44	38.23	340
26	34.093	365	58.73	48	58.653	414	54.14	308	6.084	293	24.61	217	42.67	51	34.83	306
Dez. 6	34.458	394	59.21	95	59.067	461	51.06	272	6.377	319	22.44	225	43.18	58	31.77	264
16	34.852	411	60.16	138	59.528	494	48.34	225	6.696	335	20.19	227	43.76	62	29.13	214
26	35.263	414	61.54	178	60.022	513	46.09	173	7.031	342	17.92	223	44.38	65	26.99	156
36	35.677		63.32		60.535		44.36		7.373		15.69		45.03		25.43	
Mittl. Ort	33.080		55.22		57.327		82.04		4.591		38.70		41.69		64.51	
sec δ, tg δ	1.302		−0.833		1.804		+1.502		1.002		+0.066		2.441		+2.227	

Tag	485) 12 Can. ven. sq.				488) ε Virginis				490) ϑ Virginis				492) 43 Comae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	12h 52m		+38° 41′		12h 58m		+11° 19′		13h 6m		−5° 9′		13h 8m		+28° 13′	
Jan. 1	45.050	400	34.36	174	40.889	343	62.85	212	18.567	341	54.39	216	35.953	365	48.27	199
11	45.450	392	32.62	125	41.232	335	60.73	187	18.908	333	56.55	210	36.318	360	46.28	159
21	45.842	371	31.37	72	41.567	316	58.86	159	19.241	315	58.65	199	36.678	343	44.69	114
31	46.213	339	30.65	18	41.883	289	57.27	125	19.556	289	60.64	180	37.021	318	43.55	66
Feb. 10	46.552	300	30.47	34	42.172	257	56.02	90	19.845	258	62.44	160	37.339	284	42.89	19
20	46.852	254	30.81	82	42.429	219	55.12	54	20.103	222	64.04	135	37.623	244	42.70	28
März 2	47.106	204	31.63	125	42.648	181	54.58	19	20.325	186	65.39	109	37.867	202	42.98	70
12	47.310	152	32.88	160	42.829	141	54.39	13	20.511	149	66.48	84	38.069	158	43.68	106
22	47.462	103	34.48	187	42.970	103	54.52	40	20.660	113	67.32	58	38.227	115	44.74	136
Apr. 1	47.565	55	36.35	204	43.073	68	54.92	63	20.773	80	67.90	36	38.342	74	46.10	158
10	47.620	11	38.39	212	43.141	36	55.55	79	20.853	49	68.26	16	38.416	37	47.68	172
20	47.631	27	40.51	211	43.177	8	56.34	92	20.902	21	68.42	1	38.453	2	49.40	178
30	47.604	61	42.62	202	43.185	17	57.26	98	20.923	3	68.41	16	38.455	27	51.18	177
Mai 10	47.543	89	44.64	184	43.168	39	58.24	100	20.920	24	68.25	28	38.428	54	52.95	168
20	47.454	113	46.48	162	43.129	57	59.24	98	20.896	44	67.97	38	38.374	76	54.63	153
30	47.341	130	48.10	133	43.072	71	60.22	91	20.852	60	67.59	44	38.298	94	56.16	134
Juni 9	47.211	144	49.43	101	43.001	84	61.13	83	20.792	74	67.15	50	38.204	108	57.50	111
19	47.067	152	50.44	66	42.917	94	61.96	70	20.718	85	66.65	54	38.096	120	58.61	84
29	46.915	157	51.10	29	42.823	100	62.66	56	20.633	95	66.11	55	37.976	128	59.45	55
Juli 9	46.758	157	51.39	9	42.723	103	63.22	41	20.538	99	65.56	55	37.848	131	60.00	24
19	46.601	152	51.30	48	42.620	103	63.63	24	20.439	102	65.01	54	37.717	132	60.24	7
29	46.449	142	50.82	86	42.517	99	63.87	5	20.337	100	64.47	50	37.585	127	60.17	40
Aug. 8	46.307	128	49.96	123	42.418	90	63.92	15	20.237	93	63.97	43	37.458	117	59.77	72
18	46.179	107	48.73	159	42.328	77	63.77	35	20.144	80	63.54	35	37.341	102	59.05	104
28	46.072	81	47.14	192	42.251	56	63.42	58	20.064	60	63.19	24	37.239	81	58.01	135
Sept. 7	45.991	49	45.22	223	42.195	31	62.84	82	20.004	36	62.95	8	37.158	55	56.66	165
17	45.942	11	42.99	252	42.164	0	62.02	106	19.968	4	62.87	10	37.103	21	55.01	194
27	45.931	32	40.47	276	42.164	37	60.96	130	19.964	33	62.97	31	37.082	18	53.07	220
Okt. 7	45.963	81	37.71	296	42.201	78	59.66	155	19.997	74	63.28	55	37.100	61	50.87	244
17	46.044	133	34.75	311	42.279	122	58.11	179	20.071	119	63.83	82	37.161	109	48.43	264
27	46.177	185	31.64	319	42.401	168	56.32	200	20.190	165	64.65	108	37.270	158	45.79	280
Nov. 6	46.362	237	28.45	320	42.569	212	54.32	218	20.355	211	65.73	135	37.428	207	42.99	288
16	46.599	287	25.25	314	42.781	254	52.14	233	20.566	252	67.08	160	37.635	253	40.11	291
26	46.886	329	22.11	298	43.035	289	49.81	241	20.818	289	68.68	182	37.888	295	37.20	287
Dez. 6	47.215	364	19.13	275	43.324	318	47.40	242	21.107	316	70.50	199	38.183	327	34.33	273
16	47.579	387	16.38	243	43.642	336	44.98	237	21.423	334	72.49	212	38.510	351	31.60	251
26	47.966	399	13.95	203	43.978	345	42.61	224	21.757	344	74.61	216	38.861	364	29.09	221
36	48.365		11.92		44.323		40.37		22.101		76.77		39.225		26.88	
Mittl. Ort	45.396		45.79		41.541		66.02		19.406		56.77		36.515		57.19	
sec δ, tg δ	1.281		+0.801		1.020		+0.200		1.004		−0.090		1.135		+0.537	

Tag	495) γ Hydrae AR.		495) γ Hydrae Dekl.		496) ι Centauri AR.		496) ι Centauri Dekl.	
1930	13h 15m		−22° 48′		13h 16m		−36° 20′	
Jan. 1	5.634s	362	1.97″	200	37.957s	398	24.61″	180
11	5.996	354	3.97	215	38.355	389	26.41	209
21	6.350	335	6.12	222	38.744	369	28.50	230
31	6.685	310	8.34	223	39.113	340	30.80	245
Feb. 10	6.995	277	10.57	219	39.453	306	33.25	254
20	7.272	242	12.76	209	39.759	266	35.79	256
März 2	7.514	204	14.85	195	40.025	225	38.35	252
12	7.718	167	16.80	179	40.250	183	40.87	244
22	7.885	129	18.59	161	40.433	142	43.31	233
Apr. 1	8.014	94	20.20	142	40.575	102	45.64	217
11	8.108	62	21.62	121	40.677	66	47.81	198
20	8.170	33	22.83	101	40.743	31	49.79	178
30	8.203	5	23.84	81	40.774	1	51.57	154
Mai 10	8.208	20	24.65	60	40.773	30	53.11	130
20	8.188	42	25.25	40	40.743	58	54.41	103
30	8.146	62	25.65	21	40.685	82	55.44	75
Juni 9	8.084	80	25.86	2	40.603	104	56.19	47
19	8.004	95	25.88	18	40.499	122	56.66	17
29	7.909	107	25.70	35	40.377	138	56.83	12
Juli 9	7.802	116	25.35	53	40.239	147	56.71	42
19	7.686	119	24.82	68	40.092	153	56.29	70
29	7.567	119	24.14	81	39.939	151	55.59	95
Aug. 8	7.448	112	23.33	90	39.788	143	54.64	117
18	7.336	99	22.43	97	39.645	128	53.47	135
28	7.237	79	21.46	100	39.517	102	52.12	148
Sept. 7	7.158	51	20.46	96	39.415	70	50.64	154
17	7.107	17	19.50	87	39.345	30	49.10	154
27	7.090	24	18.63	73	39.315	18	47.56	145
Okt. 7	7.114	70	17.90	53	39.333	71	46.11	130
17	7.184	120	17.37	27	39.404	127	44.81	106
27	7.304	170	17.10	2	39.531	185	43.75	76
Nov. 6	7.474	219	17.12	35	39.716	241	42.99	41
16	7.693	265	17.47	69	39.957	292	42.58	1
26	7.958	304	18.16	103	40.249	335	42.57	41
Dez. 6	8.262	334	19.19	136	40.584	368	42.98	82
16	8.596	354	20.55	164	40.952	390	43.80	123
26	8.950	364	22.19	189	41.342	401	45.03	160
36	9.314		24.08		41.743		46.63	
Mittl. Ort	6.710		10.14		39.239		37.02	
sec δ, tg δ	1.085		−0.420		1.241		−0.736	

Tag	497) ζ Ursae maj. pr. AR.		497) ζ Ursae maj. pr. Dekl.		498) α Virginis AR.		498) α Virginis Dekl.	
1930	13h 21m		+55° 16′		13h 21m		−10° 47′	
Jan. 1	6.306s	497	69.98″	174	29.154s	345	43.53″	210
11	6.803	498	68.24	115	29.499	339	45.63	210
21	7.301	483	67.09	52	29.838	324	47.73	205
31	7.784	454	66.57	11	30.162	300	49.78	193
Feb. 10	8.238	410	66.68	71	30.462	270	51.71	178
20	8.648	356	67.39	128	30.732	237	53.49	158
März 2	9.004	295	68.67	177	30.969	201	55.07	136
12	9.299	228	70.44	217	31.170	165	56.43	114
22	9.527	159	72.61	246	31.335	130	57.57	91
Apr. 1	9.686	93	75.07	265	31.465	97	58.48	69
11	9.779	28	77.72	273	31.562	66	59.17	48
20	9.807	31	80.45	270	31.628	37	59.65	30
30	9.776	86	83.15	256	31.665	12	59.95	14
Mai 10	9.690	133	85.71	234	31.677	11	60.09	1
20	9.557	173	88.05	204	31.666	33	60.08	13
30	9.384	207	90.09	167	31.633	52	59.95	24
Juni 9	9.177	232	91.76	126	31.581	68	59.71	34
19	8.945	252	93.02	81	31.513	83	59.37	42
29	8.693	263	93.83	33	31.430	95	58.95	49
Juli 9	8.430	268	94.16	14	31.335	103	58.46	54
19	8.162	266	94.02	63	31.232	108	57.92	57
29	7.896	256	93.39	111	31.124	108	57.35	59
Aug. 8	7.640	240	92.28	156	31.016	103	56.76	58
18	7.400	214	90.72	200	30.913	92	56.18	54
28	7.186	182	88.72	239	30.821	74	55.64	47
Sept. 7	7.004	141	86.33	275	30.747	51	55.17	36
17	6.863	93	83.58	307	30.696	19	54.81	21
27	6.770	36	80.51	333	30.677	18	54.60	3
Okt. 7	6.734	25	77.18	353	30.695	61	54.57	19
17	6.759	93	73.65	367	30.756	106	54.76	44
27	6.852	164	69.98	371	30.862	154	55.20	72
Nov. 6	7.016	234	66.27	367	31.016	202	55.92	100
16	7.250	302	62.60	355	31.218	245	56.92	129
26	7.552	365	59.05	332	31.463	283	58.21	154
Dez. 6	7.917	418	55.73	300	31.746	313	59.75	176
16	8.335	459	52.73	258	32.059	335	61.51	194
26	8.794	487	50.15	209	32.394	346	63.45	205
36	9.281		48.06		32.740		65.50	
Mittl. Ort	6.649		85.78		30.138		47.36	
sec δ, tg δ	1.756		+1.444		1.018		−0.191	

Tag	499) Grb 2001				500) 69 H. Urs. maj.				501) ζ Virginis				502) 17 H. Can. ven.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	13h 24m		+72° 44′		13h 25m		+60° 17′		13h 31m		−0° 14′		13h 31m		+37° 31′	
Jan. 1	20.91	83	58.59	143	52.82	56	68.28	171	6.536	338	19.33	215	39.739	389	73.67	209
11	21.74	85	57.16	77	53.38	55	66.57	109	6.874	334	21.48	205	40.128	389	71.58	162
21	22.59	84	56.39	11	53.93	54	65.48	44	7.208	322	23.53	188	40.517	378	69.96	109
31	23.43	79	56.28	55	54.47	51	65.04	21	7.530	300	25.41	165	40.895	355	68.87	55
Feb. 10	24.22	71	56.83	119	54.98	47	65.25	83	7.830	273	27.06	140	41.250	324	68.32	1
20	24.93	63	58.02	175	55.45	40	66.08	140	8.103	240	28.46	112	41.574	285	68.33	53
März 2	25.56	51	59.77	223	55.85	33	67.48	189	8.343	207	29.58	82	41.859	241	68.86	100
12	26.07	38	62.00	261	56.18	26	69.37	231	8.550	171	30.40	54	42.100	195	69.86	142
22	26.45	25	64.61	287	56.44	18	71.68	260	8.721	136	30.94	28	42.295	148	71.28	175
Apr. 1	26.70	12	67.48	301	56.62	10	74.28	279	8.857	103	31.22	3	42.443	102	73.03	200
11	26.82	2	70.49	302	56.72	2	77.07	285	8.960	72	31.25	16	42.545	58	75.03	215
20	26.80	14	73.51	293	56.74	4	79.92	281	9.032	44	31.09	33	42.603	18	77.18	220
30	26.66	25	76.44	273	56.70	11	82.73	266	9.076	17	30.76	46	42.621	19	79.38	218
Mai 10	26.41	35	79.17	243	56.59	16	85.39	243	9.093	7	30.30	55	42.602	52	81.56	206
20	26.06	43	81.60	206	56.43	21	87.82	210	9.086	28	29.75	61	42.550	81	83.62	187
30	25.63	51	83.66	161	56.22	26	89.92	172	9.058	47	29.14	64	42.469	105	85.49	163
Juni 9	25.12	56	85.27	113	55.96	28	91.64	129	9.011	65	28.50	64	42.364	125	87.12	134
19	24.56	59	86.40	61	55.68	31	92.93	81	8.946	79	27.86	63	42.239	142	88.46	101
29	23.97	62	87.01	7	55.37	32	93.74	32	8.867	92	27.23	59	42.097	155	89.47	64
Juli 9	23.35	62	87.08	47	55.05	33	94.06	19	8.775	101	26.64	54	41.942	162	90.11	26
19	22.73	61	86.61	100	54.72	33	93.87	69	8.674	107	26.10	47	41.780	165	90.37	12
29	22.12	59	85.61	151	54.39	31	93.18	118	8.567	109	25.63	38	41.615	163	90.25	52
Aug. 8	21.53	55	84.10	199	54.08	30	92.00	166	8.458	104	25.25	27	41.452	156	89.73	92
18	20.98	49	82.11	245	53.78	26	90.34	210	8.354	96	24.98	14	41.296	142	88.81	129
28	20.49	43	79.66	284	53.52	23	88.24	251	8.258	80	24.84	0	41.154	121	87.52	166
Sept. 7	20.06	35	76.82	320	53.29	18	85.73	288	8.178	57	24.84	17	41.033	94	85.86	201
17	19.71	25	73.62	349	53.11	13	82.85	320	8.121	29	25.01	37	40.939	59	83.85	233
27	19.46	15	70.13	372	52.98	7	79.65	345	8.092	7	25.38	59	40.880	19	81.52	262
Okt. 7	19.31	4	66.41	386	52.91	1	76.20	365	8.099	48	25.97	83	40.861	28	78.90	287
17	19.27	9	62.55	394	52.92	8	72.55	377	8.147	92	26.80	108	40.889	80	76.03	306
27	19.36	21	58.61	392	53.00	16	68.78	381	8.239	139	27.88	133	40.969	134	72.97	321
Nov. 6	19.57	34	54.69	381	53.16	24	64.97	376	8.378	186	29.21	156	41.103	189	69.76	328
16	19.91	46	50.88	360	53.40	32	61.21	361	8.564	229	30.77	179	41.292	241	66.48	327
26	20.37	57	47.28	329	53.72	39	57.60	336	8.793	269	32.56	197	41.533	290	63.21	318
Dez. 6	20.94	68	43.99	289	54.11	46	54.24	302	9.062	301	34.53	210	41.823	331	60.03	300
16	21.62	75	41.10	239	54.57	50	51.22	258	9.363	324	36.63	218	42.154	361	57.03	271
26	22.37	82	38.71	182	55.07	54	48.64	206	9.687	337	38.81	218	42.515	382	54.32	236
36	23.19		36.89		55.61		46.58		10.024		40.99		42.897		51.96	
Mittl. Ort	20.82		76.72		53.13		84.99		7.475		19.14		40.370		85.76	
sec δ, tg δ	3.373		+3.221		2.019		+1.754		1.000		−0.004		1.261		+0.768	

Scheinbare Sternörter 1930

Tag	504) ε Centauri AR.		504) ε Centauri Dekl.		507) τ Bootis AR.		507) τ Bootis Dekl.		509) η Ursae maj. AR.		509) η Ursae maj. Dekl.		510) 89 Virginis AR.		510) 89 Virginis Dekl.	
1930	13h 35m		−53° 6′		13h 43m		+17° 47′		13h 44m		+49° 39′		13h 46m		−17° 47′	
Jan. 1	24.464	501	24.70	126	55.271	343	71.13	224	46.479	440	28.27	208	2.647	352	4.75	190
11	24.965	494	25.96	169	55.614	343	68.89	195	46.919	448	26.19	153	2.999	350	6.65	199
21	25.459	475	27.65	207	55.957	334	66.94	160	47.367	440	24.66	93	3.349	338	8.64	202
31	25.934	445	29.72	239	56.291	315	65.34	120	47.807	419	23.73	31	3.687	318	10.66	200
Feb. 10	26.379	405	32.11	265	56.606	289	64.14	78	48.226	387	23.42	30	4.005	293	12.66	191
20	26.784	359	34.76	282	56.895	258	63.36	36	48.613	343	23.72	88	4.298	261	14.57	178
März 2	27.143	309	37.58	294	57.153	222	63.00	5	48.956	293	24.60	141	4.559	228	16.35	163
12	27.452	258	40.52	299	57.375	185	63.05	42	49.249	239	26.01	185	4.787	193	17.98	145
22	27.710	205	43.51	298	57.560	148	63.47	75	49.488	181	27.86	220	4.980	159	19.43	125
Apr. 1	27.915	154	46.49	292	57.708	113	64.22	102	49.669	123	30.06	246	5.139	126	20.68	107
11	16 28.069	104	49.41	279	18 57.821	78	65.24	121	18 49.792	68	32.52	260	19 5.265	94	21.75	88
20	28.173	54	52.20	263	57.899	47	66.45	135	49.860	15	35.12	263	5.359	65	22.63	69
30	28.227	8	54.83	243	57.946	17	67.80	142	49.875	34	37.75	258	5.424	36	23.32	53
Mai 10	28.235	37	57.26	216	57.963	10	69.22	142	49.841	77	40.33	242	5.460	10	23.85	36
20	28.198	78	59.42	187	57.953	34	70.64	138	49.764	117	42.75	219	5.470	14	24.21	21
30	28.120	118	61.29	155	57.919	55	72.02	127	49.647	150	44.94	187	5.456	37	24.42	7
Juni 9	28.002	153	62.84	119	57.864	75	73.29	113	49.497	179	46.81	152	5.419	59	24.49	7
19	27.849	185	64.03	80	57.789	91	74.42	95	49.318	201	48.33	111	5.360	77	24.42	20
29	27.664	210	64.83	40	57.698	105	75.37	76	49.117	217	49.44	68	5.283	94	24.22	32
Juli 9	27.454	228	65.23	1	57.593	116	76.13	53	48.900	229	50.12	22	5.189	108	23.90	43
19	27.226	239	65.22	42	57.477	122	76.66	29	48.671	233	50.34	24	5.081	117	23.47	53
29	26.987	241	64.80	82	57.355	125	76.95	2	48.438	232	50.10	70	4.964	121	22.94	61
Aug. 8	26.746	232	63.98	119	57.230	123	76.97	21	48.206	223	49.40	116	4.843	120	22.33	67
18	26.514	213	62.79	151	57.107	113	76.76	50	47.983	207	48.24	160	4.723	112	21.66	69
28	26.301	181	61.28	180	56.994	99	76.26	77	47.776	182	46.64	202	4.611	97	20.97	70
Sept. 7	26.120	139	59.48	200	56.895	78	75.49	105	47.594	151	44.62	240	4.514	74	20.27	65
17	25.981	85	57.48	213	56.817	49	74.44	133	47.443	111	42.22	274	4.440	43	19.62	57
27	25.896	22	55.35	217	56.768	14	73.11	160	47.332	62	39.48	305	4.397	7	19.05	43
Okt. 7	25.874	48	53.18	211	56.754	26	71.51	186	47.270	8	36.43	330	4.390	37	18.62	25
17	25.922	124	51.07	196	56.780	72	69.65	210	47.262	52	33.13	349	4.427	85	18.37	2
27	26.046	200	49.11	172	56.852	120	67.55	232	47.314	116	29.64	361	4.512	135	18.35	24
Nov. 6	26.246	275	47.39	138	56.972	168	65.23	249	47.430	182	26.03	363	4.647	185	18.59	52
16	26.521	343	46.01	98	57.140	215	62.74	261	47.612	245	22.40	358	4.832	232	19.11	82
26	26.864	402	45.03	53	57.355	258	60.13	267	47.857	305	18.82	343	5.064	275	19.93	111
Dez. 6	27.266	450	44.50	3	57.613	293	57.46	266	48.162	358	15.39	318	5.339	309	21.04	138
16	27.716	483	44.47	47	57.906	321	54.80	256	48.520	399	12.21	283	5.648	335	22.42	162
26	28.199	501	44.94	96	58.227	338	52.24	239	48.919	428	9.38	239	5.983	349	24.04	181
36	28.700		45.90		58.565		49.85		49.347		6.99		6.332		25.85	
Mittl. Ort	26.336		40.67		56.136		77.76		47.103		43.39		3.855		10.00	
sec δ, tg δ	1.666		−1.332		1.050		+0.321		1.545		+1.178		1.050		−0.321	

Tag	512) ζ Centauri AR.	Diff.	512) ζ Centauri Dekl.	Diff.	513) η Bootis AR.	Diff.	513) η Bootis Dekl.	Diff.	517) 11 Bootis AR.	Diff.	517) 11 Bootis Dekl.	Diff.	516) τ Virginis AR.	Diff.	516) τ Virginis Dekl.	Diff.
1930	13h 51m		−46° 56′		13h 51m		+18° 44′		13h 57m		+27° 42′		13h 58m		+1° 52′	
Jan. 1	7.875	453	27.14	123	20.204	343	45.45	229	59.219	354	76.32	232	3.876	334	55.11	216
11	8.328	452	28.37	160	20.547	345	43.16	198	59.573	359	74.00	194	4.210	336	52.95	203
21	8.780	437	29.97	194	20.892	336	41.18	163	59.932	352	72.06	149	4.546	327	50.92	185
31	9.217	414	31.91	222	21.228	320	39.55	121	60.284	336	70.57	102	4.873	311	49.07	161
Feb. 10	9.631	381	34.13	242	21.548	294	38.34	79	60.620	312	69.55	51	5.184	288	47.46	133
20	10.012	343	36.55	257	21.842	264	37.55	36	60.932	281	69.04	2	5.472	259	46.13	103
März 2	10.355	300	39.12	266	22.106	230	37.19	7	61.213	245	69.02	45	5.731	229	45.10	72
12	10.655	257	41.78	268	22.336	193	37.26	44	61.458	207	69.47	87	5.960	195	44.38	41
22	10.912	211	44.46	267	22.529	157	37.70	78	61.665	168	70.34	124	6.155	162	43.97	14
Apr. 1	11.123	166	47.13	259	22.686	121	38.48	106	61.833	128	71.58	153	6.317	129	43.83	12
11	11.289	123	49.72	249	22.807	86	39.54	127	61.961	91	73.11	173	6.446	99	43.95	32
20*)	11.412	80	52.21	233	22.893	54	40.81	140	62.052	55	74.84	186	6.545	69	44.27	50
30	11.492	39	54.54	214	22.947	24	42.21	147	62.107	21	76.70	191	6.614	42	44.77	62
Mai 10	11.531	1	56.68	192	22.971	4	43.68	148	62.128	9	78.61	187	6.656	16	45.39	70
20	11.530	39	58.60	167	22.967	28	45.16	143	62.119	37	80.48	178	6.672	9	46.09	76
30	11.491	75	60.27	138	22.939	52	46.59	132	62.082	63	82.26	162	6.663	31	46.85	76
Juni 9	11.416	108	61.65	108	22.887	72	47.91	118	62.019	85	83.88	141	6.632	51	47.61	75
19	11.308	138	62.73	73	22.815	89	49.09	99	61.934	105	85.29	116	6.581	70	48.36	70
29	11.170	164	63.46	39	22.726	105	50.08	79	61.829	122	86.45	88	6.511	87	49.06	65
Juli 9	11.006	184	63.85	4	22.621	116	50.87	55	61.707	134	87.33	57	6.424	100	49.71	57
19	10.822	198	63.89	33	22.505	124	51.42	31	61.573	143	87.90	24	6.324	110	50.28	47
29	10.624	204	63.56	68	22.381	128	51.73	4	61.430	147	88.14	9	6.214	116	50.75	35
Aug. 8	10.420	201	62.88	100	22.253	126	51.77	23	61.283	145	88.05	43	6.098	116	51.10	23
18	10.219	188	61.88	130	22.127	119	51.54	51	61.138	138	87.62	77	5.982	110	51.33	8
28	10.031	165	60.58	155	22.008	105	51.03	80	61.000	124	86.85	111	5.872	99	51.41	8
Sept. 7	9.866	131	59.03	173	21.903	84	50.23	108	60.876	102	85.74	145	5.773	79	51.33	26
17	9.735	87	57.30	184	21.819	57	49.15	136	60.774	74	84.29	177	5.694	52	51.07	47
27	9.648	33	55.46	188	21.762	21	47.79	164	60.700	38	82.52	207	5.642	19	50.60	69
Okt. 7	9.615	28	53.58	183	21.741	19	46.15	191	60.662	4	80.45	234	5.623	20	49.91	92
17	9.643	95	51.75	169	21.760	63	44.24	216	60.666	51	78.11	259	5.643	65	48.99	117
27	9.738	163	50.06	147	21.823	112	42.08	237	60.717	102	75.52	279	5.708	112	47.82	140
Nov. 6	9.901	232	48.59	116	21.935	162	39.71	254	60.819	153	72.73	294	5.820	160	46.42	164
16	10.133	295	47.43	80	22.097	208	37.17	267	60.972	204	69.79	302	5.980	206	44.78	185
26	10.428	351	46.63	38	22.305	252	34.50	272	61.176	251	66.77	302	6.186	248	42.93	202
Dez. 6	10.779	396	46.25	7	22.557	290	31.78	271	61.427	291	63.75	294	6.434	284	40.91	215
16	11.175	431	46.32	51	22.847	318	29.07	261	61.718	324	60.81	277	6.718	312	38.76	220
26	11.606	451	46.83	96	23.165	337	26.46	243	62.042	346	58.04	251	7.030	329	36.56	218
36	12.057		47.79		23.502		24.03		62.388		55.53		7.359		34.38	
Mittl. Ort	9.678		40.81		21.106		52.55		60.098		86.26		4.950		56.92	
sec δ, tg δ	1.465		−1.070		1.056		+0.339		1.130		+0.526		1.000		+0.033	

*) Bei Stern 517) und 516) lies April 21

Scheinbare Sternörter 1930

Tag	518) β Centauri AR.		518) β Centauri Dekl.		521) α Draconis AR.		521) α Draconis Dekl.		520) ϑ Centauri AR.		520) ϑ Centauri Dekl.		522) d Bootis AR.		522) d Bootis Dekl.	
1930	$13^h 58^m$		−60° 1′		$14^h 2^m$		+64° 41′		$14^h 2^m$		−36° 1′		$14^h 7^m$		+25° 24′	
Jan. 1	49.53	58	54.87	77	28.90	59	78.33	207	31.678	396	25.26	139	11.487	346	71.57	236
11	50.11	58	55.64	126	29.49	61	76.26	145	32.074	396	26.65	168	11.833	353	69.21	202
21	50.69	57	56.90	170	30.10	61	74.81	80	32.470	387	28.33	191	12.186	348	67.19	159
31	51.26	54	58.60	210	30.71	59	74.01	12	32.857	368	30.24	209	12.534	334	65.60	112
Feb. 10	51.80	50	60.70	242	31.30	56	73.89	53	33.225	341	32.33	218	12.868	312	64.48	64
20	52.30	46	63.12	269	31.86	50	74.42	116	33.566	310	34.51	225	13.180	283	63.84	16
März 2	52.76	40	65.81	289	32.36	44	75.58	171	33.876	274	36.76	226	13.463	249	63.68	31
12	53.16	34	68.70	301	32.80	35	77.29	219	34.150	237	39.02	222	13.712	213	63.99	74
22	53.50	29	71.71	308	33.15	27	79.48	256	34.387	199	41.24	214	13.925	175	64.73	110
Apr. 1	53.79	22	74.79	309	33.42	19	82.04	282	34.586	162	43.38	204	14.100	137	65.83	140
11	54.01	16	77.88	304	33.61	9	84.86	296	34.748	126	45.42	191	14.237	101	67.23	163
21	54.17	10	80.92	292	33.70	1	87.82	299	34.874	90	47.33	175	14.338	66	68.86	177
30	54.27	5	83.84	277	33.71	7	90.81	290	34.964	56	49.08	158	14.404	33	70.63	184
Mai 10	54.32	1	86.61	255	33.64	15	93.71	271	35.020	22	50.66	139	14.437	3	72.47	182
20	54.31	7	89.16	228	33.49	22	96.42	244	35.042	10	52.05	118	14.440	26	74.29	175
30	54.24	13	91.44	198	33.27	27	98.86	209	35.032	40	53.23	95	14.414	52	76.04	161
Juni 9	54.11	17	93.42	162	33.00	32	100.95	167	34.992	69	54.18	71	14.362	75	77.65	142
19	53.94	22	95.04	123	32.68	36	102.62	121	34.923	96	54.89	46	14.287	97	79.07	119
29	53.72	26	96.27	82	32.32	39	103.83	72	34.827	120	55.35	20	14.190	114	80.26	93
Juli 9	53.46	28	97.09	38	31.93	41	104.55	20	34.707	138	55.55	7	14.076	128	81.19	64
19	53.18	30	97.47	7	31.52	42	104.75	32	34.569	154	55.48	33	13.948	139	81.83	33
29	52.88	31	97.40	52	31.10	42	104.43	83	34.415	161	55.15	59	13.809	145	82.16	2
Aug. 8	52.57	31	96.88	95	30.68	41	103.60	134	34.254	162	54.56	82	13.664	145	82.18	31
18	52.26	29	95.93	135	30.27	38	102.26	183	34.092	154	53.74	102	13.519	139	81.87	65
28	51.97	26	94.58	170	29.89	35	100.43	228	33.938	138	52.72	119	13.380	126	81.22	98
Sept. 7	51.71	22	92.88	200	29.54	30	98.15	269	33.800	113	51.53	130	13.254	107	80.24	130
17	51.49	15	90.88	221	29.24	24	95.46	306	33.687	77	50.23	136	13.147	80	78.94	162
27	51.34	7	88.67	233	29.00	18	92.40	337	33.610	34	48.87	135	13.067	45	77.32	193
Okt. 7	51.27	0	86.34	237	28.82	10	89.03	362	33.576	18	47.52	126	13.022	4	75.39	221
17	51.27	9	83.97	229	28.72	2	85.41	380	33.594	74	46.26	111	13.018	42	73.18	246
27	51.36	19	81.68	212	28.70	8	81.61	389	33.668	132	45.15	89	13.060	92	70.72	267
Nov. 6	51.55	27	79.56	184	28.78	17	77.72	390	33.800	193	44.26	60	13.152	143	68.05	284
16	51.82	36	77.72	149	28.95	27	73.82	380	33.993	248	43.66	28	13.295	194	65.21	293
26	52.18	44	76.23	105	29.22	35	70.02	360	34.241	298	43.38	9	13.489	240	62.28	297
Dez. 6	52.62	50	75.18	57	29.57	44	66.42	331	34.539	340	43.47	47	13.729	282	59.31	291
16	53.12	54	74.61	7	30.01	51	63.11	290	34.879	372	43.94	84	14.011	314	56.40	277
26	53.66	58	74.54	45	30.52	56	60.21	241	35.251	392	44.78	119	14.325	338	53.63	254
36	54.24		74.99		31.08		57.80		35.643		45.97		14.663		51.09	
Mittl. Ort	52.00		70.96		29.58		96.04		33.285		35.39		12.437		81.03	
sec δ, tg δ	2.002		−1.735		2.341		+2.116		1.236		−0.727		1.107		+0.475	

Tag	524) 4 Ursae min.				523) ϰ Virginis				525) ι Virginis				526) α Bootis			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1930	$14^h\ 9^m$		+77° 51′		$14^h\ 9^m$		−9° 56′		$14^h\ 12^m$		−5° 40′		$14^h\ 12^m$		+19° 32′	
Jan. 1	4.75		76.47		8.263		53.66		19.220		2.16		27.055		38.15	
11	5.80	105	74.57	190	8.602	339	55.59	193	19.554	334	4.18	202	27.390	335	35.74	241
21	6.92	112	73.30	127	8.943	341	57.54	195	19.891	337	6.17	199	27.731	341	33.63	211
31	8.05	113	72.69	61	9.277	334	59.43	189	20.222	331	8.06	189	28.068	337	31.89	174
Feb. 10	9.16	111	72.77	8	9.596	319	61.22	179	20.539	317	9.80	174	28.392	324	30.55	134
20	10.22	106	73.51	74	9.893	297	62.85	163	20.835	296	11.33	153	28.695	303	29.66	89
März 2	11.18	96	74.88	137	10.163	270	64.29	144	21.105	270	12.63	130	28.970	275	29.21	45
12	12.01	83	76.79	191	10.404	241	65.50	121	21.345	240	13.68	105	29.214	244	29.20	1
22	12.69	68	79.16	237	10.612	208	66.50	100	21.555	210	14.47	79	29.424	210	29.59	39
Apr. 1	13.19	50	81.89	273	10.789	177	67.27	77	21.732	177	15.02	55	29.599	175	30.35	76
11	13.51	32	84.85	296	10.934	145	67.82	55	21.878	146	15.34	32	29.739	140	31.40	105
21	13.65	14	87.93	308	11.049	115	68.18	36	21.994	116	15.45	11	29.844	105	32.68	128
30	13.60	5	91.01	308	11.134	85	68.37	19	22.080	86	15.38	7	29.917	73	34.12	144
Mai 10	13.37	23	93.97	296	11.192	58	68.40	3	22.139	59	15.18	20	29.958	41	35.64	152
20	12.98	39	96.71	274	11.223	31	68.31	9	22.171	32	14.87	31	29.970	12	37.19	155
30	12.44	54	99.14	243	11.228	5	68.12	19	22.178	7	14.47	40	29.955	15	38.69	150
Juni 9	11.78	66	101.19	205	11.209	19	67.84	28	22.160	18	14.01	46	29.914	41	40.10	141
19	11.01	77	102.80	161	11.167	42	67.50	34	22.120	40	13.51	50	29.850	64	41.36	126
29	10.15	86	103.91	111	11.104	63	67.10	40	22.058	62	13.00	51	29.765	85	42.44	108
Juli 9	9.24	91	104.50	59	11.021	83	66.66	44	21.977	81	12.49	51	29.662	103	43.30	86
19	8.28	96	104.56	6	10.923	98	66.20	46	21.880	97	11.99	50	29.543	119	43.93	63
29	7.31	97	104.07	49	10.812	111	65.72	48	21.770	110	11.52	47	29.413	130	44.29	36
Aug. 8	6.35	96	103.05	102	10.692	120	65.23	49	21.652	118	11.09	43	29.276	137	44.38	9
18	5.42	93	101.52	153	10.571	121	64.77	46	21.531	121	10.72	37	29.137	139	44.18	20
28	4.53	89	99.50	202	10.453	118	64.34	43	21.413	118	10.42	30	29.003	134	43.70	48
Sept. 7	3.71	82	97.03	247	10.347	106	63.97	37	21.306	107	10.23	19	28.880	123	42.91	79
17	3.00	71	94.16	287	10.259	88	63.70	27	21.216	90	10.16	7	28.775	105	41.83	108
27	2.40	60	90.93	323	10.198	61	63.56	14	21.153	63	10.25	9	28.696	79	40.45	138
Okt. 7	1.93	47	87.42	351	10.171	27	63.57	1	21.122	31	10.51	26	28.649	47	38.79	166
17	1.61	32	83.68	374	10.184	13	63.77	20	21.131	9	10.98	47	28.643	6	36.85	194
27	1.46	15	79.79	389	10.242	58	64.19	42	21.185	54	11.67	69	28.681	38	34.65	220
Nov. 6	1.48	2	75.84	395	10.349	107	64.86	67	21.286	101	12.61	94	28.767	86	32.22	243
16	1.68	20	71.92	392	10.506	157	65.78	92	21.437	151	13.79	118	28.904	137	29.61	261
26	2.07	39	68.14	378	10.710	204	66.94	116	21.635	198	15.21	142	29.090	186	26.86	275
Dez. 6	2.64	57	64.58	356	10.959	249	68.35	141	21.877	242	16.84	163	29.321	231	24.05	281
16	3.37	73	61.36	322	11.244	285	69.97	162	22.156	279	18.65	181	29.593	272	21.24	281
26	4.24	87	58.58	278	11.558	314	71.75	178	22.464	308	20.59	194	29.897	304	18.52	272
36	5.23	99	56.32	226	11.891	333	73.64	189	22.792	328	22.60	201	30.224	327	15.97	255
Mittl. Ort	5.49		95.28		9.513		55.36		20.442		2.34		28.074		46.00	
sec δ, tg δ	4.761		+4.655		1.015		−0.175		1.005		−0.099		1.061		+0.355	

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Tag	527) λ Bootis AR.		527) λ Bootis Dekl.		531) ϑ Bootis AR.		531) ϑ Bootis Dekl.	
1930	14ʰ 13ᵐ		+46° 23′		14ʰ 22ᵐ		+52° 9′	
Jan. 1	42.556	406	77.78	238	47.921	432	69.25	245
11	42.962	419	75.40	186	48.353	452	66.80	189
21	43.381	420	73.54	129	48.805	456	64.91	130
31	43.801	406	72.25	69	49.261	446	63.61	67
Feb. 10	44.207	383	71.56	7	49.707	423	62.94	2
20	44.590	349	71.49	53	50.130	389	62.92	60
März 2	44.939	307	72.02	108	50.519	344	63.52	118
12	45.246	261	73.10	158	50.863	294	64.70	169
22	45.507	210	74.68	198	51.157	238	66.39	211
Apr. 1	45.717	158	76.66	230	51.395	180	68.50	245
11	45.875	107	78.96	250	51.575	122	70.95	266
21	45.982	58	81.46	261	51.697	65	73.61	277
30	[26] 46.040	11	84.07	262	[28] 51.762	10	76.38	277
Mai 10	46.051	34	86.69	253	51.772	41	79.15	268
20	46.017	73	89.22	235	51.731	90	81.83	249
30	45.944	110	91.57	210	51.641	132	84.32	223
Juni 9	45.834	143	93.67	179	51.509	170	86.55	189
19	45.691	169	95.46	142	51.339	203	88.44	151
29	45.522	192	96.88	102	51.136	230	89.95	107
Juli 9	45.330	209	97.90	59	50.906	250	91.02	62
19	45.121	221	98.49	14	50.656	265	91.64	15
29	44.900	227	98.63	32	50.391	272	91.79	34
Aug. 8	44.673	224	98.31	78	50.119	271	91.45	83
18	44.449	216	97.53	122	49.848	262	90.62	129
28	44.233	199	96.31	165	49.586	244	89.33	175
Sept. 7	44.034	173	94.66	206	49.342	216	87.58	217
17	43.861	139	92.60	244	49.126	180	85.41	258
27	43.722	97	90.16	278	48.946	134	82.83	292
Okt. 7	43.625	47	87.38	307	48.812	80	79.91	323
17	43.578	9	84.31	332	48.732	18	76.68	348
27	43.587	70	80.99	348	48.714	49	73.20	364
Nov. 6	43.657	134	77.51	359	48.763	119	69.56	374
16	43.791	197	73.92	359	48.882	189	65.82	374
26	43.988	257	70.33	351	49.071	257	62.08	364
Dez. 6	44.245	310	66.82	333	49.328	318	58.44	344
16	44.555	356	63.49	303	49.646	372	55.00	314
26	44.911	390	60.46	266	50.018	412	51.86	273
36	45.301		57.80		50.430		49.13	
Mittl. Ort	43.440		92.56		48.863		85.17	
sec δ, tg δ	1.450		+1.050		1.631		+1.288	

Tag	534) ρ Bootis AR.		534) ρ Bootis Dekl.		535) γ Bootis AR.		535) γ Bootis Dekl.	
1930	14ʰ 28ᵐ		+30° 40′		14ʰ 29ᵐ		+38° 36′	
Jan. 1	47.761	346	29.15	250	14.578	366	36.02	252
11	48.107	358	26.65	210	14.944	379	33.50	207
21	48.465	358	24.55	165	15.323	382	31.43	156
31	48.823	349	22.90	115	15.705	374	29.87	100
Feb. 10	49.172	331	21.75	62	16.079	354	28.87	42
20	49.503	304	21.13	9	16.433	327	28.45	16
März 2	49.807	273	21.04	42	16.760	292	28.61	71
12	50.080	238	21.46	89	17.052	253	29.32	120
22	50.318	200	22.35	130	17.305	212	30.52	162
Apr. 1	50.518	161	23.65	163	17.517	168	32.14	197
11	50.679	123	25.28	188	17.685	125	34.11	222
21	50.802	86	27.16	205	17.810	82	36.33	236
30	[30] 50.888	50	29.21	212	[30] 17.892	42	38.69	243
Mai 10	50.938	15	31.33	212	17.934	2	41.12	239
20	50.953	17	33.45	204	17.936	34	43.51	228
30	50.936	47	35.49	189	17.902	67	45.79	208
Juni 9	50.889	74	37.38	168	17.835	98	47.87	183
19	50.815	100	39.06	143	17.737	125	49.70	153
29	50.715	122	40.49	113	17.612	149	51.23	117
Juli 9	50.593	140	41.62	80	17.463	168	52.40	80
19	50.453	154	42.42	46	17.295	183	53.20	39
29	50.299	164	42.88	9	17.112	192	53.59	2
Aug. 8	50.135	167	42.97	28	16.920	194	53.57	44
18	49.968	164	42.69	65	16.726	190	53.13	86
28	49.804	154	42.04	102	16.536	179	52.27	127
Sept. 7	49.650	136	41.02	139	16.357	159	51.00	167
17	49.514	110	39.63	174	16.198	131	49.33	205
27	49.404	77	37.89	207	16.067	94	47.28	240
Okt. 7	49.327	36	35.82	237	15.973	51	44.88	271
17	49.291	12	33.45	265	15.922	0	42.17	298
27	49.303	62	30.80	287	15.922	55	39.19	319
Nov. 6	49.365	117	27.93	304	15.977	113	36.00	334
16	49.482	170	24.89	314	16.090	171	32.66	341
26	49.652	221	21.75	316	16.261	226	29.25	339
Dez. 6	49.873	267	18.59	310	16.487	276	25.86	328
16	50.140	304	15.49	294	16.763	318	22.58	306
26	50.444	334	12.55	269	17.081	351	19.52	275
36	50.778		9.86		17.432		16.77	
Mittl. Ort	48.815		40.39		15.604		49.21	
sec δ, tg δ	1.163		+0.593		1.280		+0.799	

Tag	537) η Centauri				538) α Centauri [1]				543) ζ Bootis med.				542) α Apodis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	14h 31m		−41° 50′		14h 34m		−60° 32′		14h 37m		+14° 1′		14h 38m		−78° 44′	
Jan. 1	1.238	417	54.96	92	47.38	57	36.47	36	47.117	323	32.64	236	57.73	129	43.48	34
11	1.655	425	55.88	126	47.95	59	36.83	84	47.440	333	30.28	212	59.02	134	43.14	23
21	2.080	421	57.14	155	48.54	58	37.67	129	47.773	333	28.16	182	60.36	135	43.37	79
31	2.501	407	58.69	179	49.12	56	38.96	169	48.106	324	26.34	146	61.71	133	44.16	131
Feb. 10	2.908	385	60.48	198	49.68	53	40.65	205	48.430	308	24.88	107	63.04	128	45.47	180
20	3.293	357	62.46	211	50.21	49	42.70	234	48.738	286	23.81	66	64.32	119	47.27	223
März 2	3.650	324	64.57	219	50.70	44	45.04	257	49.024	258	23.15	25	65.51	110	49.50	260
12	3.974	288	66.76	223	51.14	39	47.61	274	49.282	229	22.90	15	66.61	97	52.10	291
22	4.262	250	68.99	222	51.53	33	50.35	285	49.511	198	23.05	50	67.58	84	55.01	315
Apr. 1	4.512	212	71.21	218	51.86	28	53.20	290	49.709	165	23.55	81	68.42	69	58.16	333
11	4.724	173	73.39	210	52.14	21	56.10	290	49.874	133	24.36	106	69.11	53	61.49	342
21	4.897	135	75.49	200	52.35	15	59.00	285	50.007	103	25.42	124	69.64	37	64.91	346
30*)	5.032	96	77.49	186	52.50	9	61.85	273	50.110	72	26.66	137	70.01	20	68.37	342
Mai 10	5.128	58	79.35	171	52.59	3	64.58	258	50.182	43	28.03	142	70.21	4	71.79	332
20	5.186	20	81.06	153	52.62	4	67.16	236	50.225	14	29.45	143	70.25	13	75.11	313
30	5.206	18	82.59	131	52.58	9	69.52	211	50.239	13	30.88	137	70.12	29	78.24	288
Juni 9	5.188	53	83.90	107	52.49	15	71.63	180	50.226	39	32.25	127	69.83	45	81.12	257
19	5.135	88	84.97	82	52.34	20	73.43	146	50.187	63	33.52	114	69.38	58	83.69	219
29	5.047	119	85.79	55	52.14	24	74.89	107	50.124	85	34.66	97	68.80	71	85.88	176
Juli 9	4.928	145	86.34	25	51.90	29	75.96	67	50.039	104	35.63	78	68.09	82	87.64	128
19	4.783	167	86.59	5	51.61	31	76.63	24	49.935	120	36.41	56	67.27	89	88.92	77
29	4.616	182	86.54	34	51.30	33	76.87	21	49.815	131	36.97	33	66.38	93	89.69	23
Aug. 8	4.434	189	86.20	63	50.97	34	76.66	64	49.684	138	37.30	9	65.45	95	89.92	32
18	4.245	186	85.57	90	50.63	33	76.02	105	49.546	137	37.39	17	64.50	93	89.60	85
28	4.059	173	84.67	114	50.30	30	74.97	143	49.409	130	37.22	43	63.57	86	88.75	137
Sept. 7	3.886	151	83.53	133	50.00	27	73.54	177	49.279	116	36.79	70	62.71	77	87.38	183
17	3.735	115	82.20	147	49.73	21	71.77	203	49.163	93	36.09	98	61.94	63	85.55	223
27	3.620	71	80.73	153	49.52	14	69.74	221	49.070	63	35.11	125	61.31	46	83.32	255
Okt. 7	3.549	19	79.20	153	49.38	6	67.53	232	49.007	26	33.86	152	60.85	27	80.77	277
17	3.530	42	77.67	145	49.32	3	65.21	231	48.981	17	32.34	179	60.58	5	78.00	288
27	3.572	105	76.22	129	49.35	12	62.90	221	48.998	65	30.55	203	60.53	17	75.12	286
Nov. 6	3.677	171	74.93	106	49.47	22	60.69	200	49.063	114	28.52	224	60.70	39	72.26	274
16	3.848	234	73.87	78	49.69	31	58.69	171	49.177	164	26.28	241	61.09	62	69.52	251
26	4.082	292	73.09	43	50.00	40	56.98	135	49.341	211	23.87	252	61.71	83	67.01	216
Dez. 6	4.374	341	72.66	7	50.40	46	55.63	91	49.552	252	21.35	258	62.54	99	64.85	173
16	4.715	381	72.59	32	50.86	52	54.72	44	49.804	287	18.77	256	63.53	114	63.12	124
26	5.096	409	72.91	69	51.38	56	54.28	5	50.091	313	16.21	245	64.67	126	61.88	70
36	5.505		73.60		51.94		54.33		50.404		13.76		65.93		61.18	
Mittl. Ort	3.187		65.00		50.18		50.40		48.313		39.41		64.45		59.34	
sec δ, tg δ	1.342		−0.896		2.034		−1.771		1.031		+0.250		5.126		−5.027	

[1]) Ort des hellen Sterns; die jährliche Parallaxe (0.75) ist bereits berücksichtigt.

*) Bei Stern 538), 543) und 542) lies Mai 1

Scheinbare Sternörter 1930

Tag	545) μ Virginis AR.		545) μ Virginis Dekl.		547) 109 Virginis AR.		547) 109 Virginis Dekl.	
1930	$14^h 39^m$		$-5° 21'$		$14^h 42^m$		$+2° 10'$	
Jan. 1	20.741	326	18.60	195	41.180	319	69.06	212
11	21.067	333	20.55	192	41.499	329	66.94	201
21	21.400	333	22.47	183	41.828	329	64.93	184
31	21.733	323	24.30	167	42.157	320	63.09	160
Feb. 10	22.056	306	25.97	147	42.477	305	61.49	132
20	22.362	285	27.44	124	42.782	284	60.17	101
März 2	22.647	259	28.68	98	43.066	258	59.16	70
12	22.906	230	29.66	73	43.324	230	58.46	39
22	23.136	202	30.39	48	43.554	201	58.07	8
Apr. 1	23.338	172	30.87	24	43.755	172	57.99	19
11	23.510	142	31.11	4	43.927	141	58.18	41
21	23.652	113	31.15	14	44.068	112	58.59	59
Mai 1	[2] 23.765	85	31.01	28	[3] 44.180	84	59.18	73
10	23.850	58	30.73	38	44.264	55	59.91	82
20	23.908	29	30.35	46	44.319	28	60.73	87
30	23.937	4	29.89	51	44.347	1	61.60	88
Juni 9	23.941	23	29.38	54	44.348	25	62.48	86
19	23.918	48	28.84	54	44.323	49	63.34	81
29	23.870	70	28.30	53	44.274	72	64.15	74
Juli 9	23.800	91	27.77	51	44.202	93	64.89	64
19	23.709	108	27.26	46	44.109	109	65.53	53
29	23.601	120	26.80	42	44.000	122	66.06	41
Aug. 8	23.481	128	26.38	36	43.878	130	66.47	28
18	23.353	128	26.02	27	43.748	131	66.75	12
28	23.225	122	25.75	17	43.617	125	66.87	5
Sept. 7	23.103	107	25.58	5	43.492	111	66.82	23
17	22.996	85	25.53	9	43.381	89	66.59	42
27	22.911	55	25.62	26	43.292	60	66.17	64
Okt. 7	22.856	16	25.88	46	43.232	23	65.53	87
17	22.840	27	26.34	67	43.209	20	64.66	111
27	22.867	74	27.01	90	43.229	67	63.55	134
Nov. 6	22.941	125	27.91	113	43.296	116	62.21	157
16	23.066	173	29.04	136	43.412	164	60.64	177
26	23.239	220	30.40	157	43.576	211	58.87	195
Dez. 6	23.459	260	31.97	174	43.787	252	56.92	207
16	23.719	292	33.71	186	44.039	285	54.85	215
26	24.011	317	35.57	194	44.324	311	52.70	214
36	24.328		37.51		44.635		50.56	
Mittl. Ort	22.103		17.66		42.488		72.42	
sec δ, tg δ	1.004		−0.094		1.001		+0.038	

Tag	548) α Librae AR.		548) α Librae Dekl.		549) Grb. 2164 AR.		549) Grb. 2164 Dekl.	
1930	$14^h 46^m$		$-15° 45'$		$14^h 49^m$		$+59° 34'$	
Jan. 1	58.586	334	5.15	163	38.419	467	23.20	263
11	58.920	343	6.78	170	38.886	502	20.57	207
21	59.263	343	8.48	172	39.388	520	18.50	147
31	59.606	335	10.20	168	39.908	520	17.03	81
Feb. 10	59.941	319	11.88	160	40.428	504	16.22	15
20	60.260	297	13.48	147	40.932	474	16.07	52
März 2	60.557	272	14.95	132	41.406	429	16.59	114
12	60.829	245	16.27	114	41.835	375	17.73	170
22	61.074	216	17.41	96	42.210	313	19.43	217
Apr. 1	61.290	186	18.37	78	42.523	246	21.60	254
11	61.476	157	19.15	62	42.769	175	24.14	281
21	61.633	127	19.77	46	42.944	105	26.95	296
Mai 1	[4] 61.760	98	20.23	32	[5] 43.049	35	29.91	300
10	61.858	70	20.55	20	43.084	33	32.91	293
20	61.928	40	20.75	9	43.051	96	35.84	277
30	61.968	12	20.84	0	42.955	155	38.61	251
Juni 9	61.980	17	20.84	9	42.800	207	41.12	219
19	61.963	43	20.75	16	42.593	253	43.31	180
29	61.920	69	20.59	23	42.340	293	45.11	137
Juli 9	61.851	92	20.36	30	42.047	325	46.48	89
19	61.759	110	20.06	35	41.722	348	47.37	40
29	61.649	125	19.71	40	41.374	362	47.77	11
Aug. 8	61.524	134	19.31	44	41.012	367	47.66	63
18	61.390	137	18.87	46	40.645	362	47.03	113
28	61.253	130	18.41	46	40.283	346	45.90	161
Sept. 7	61.123	116	17.95	43	39.937	318	44.29	208
17	61.007	93	17.52	37	39.619	279	42.21	251
27	60.914	62	17.15	27	39.340	229	39.70	290
Okt. 7	60.852	23	16.88	14	39.111	169	36.80	324
17	60.829	30	16.74	3	38.942	98	33.56	351
27	60.852	72	16.77	24	38.844	21	30.05	371
Nov. 6	60.924	124	17.01	46	38.823	62	26.34	383
16	61.048	175	17.47	71	38.885	146	22.51	386
26	61.223	223	18.18	95	39.031	230	18.65	379
Dez. 6	61.446	265	19.13	118	39.261	309	14.86	360
16	61.711	299	20.31	138	39.570	379	11.26	331
26	62.010	325	21.69	154	39.949	436	7.95	291
36	62.335		23.23		40.385		5.04	
Mittl. Ort	60.107		7.05		39.641		40.18	
sec δ, tg δ	1.039		−0.282		1.975		+1.703	

Tag	550) β Ursae min. AR.		550) β Ursae min. Dekl.		551) Pi XIV, 221 AR.		551) Pi XIV, 221 Dekl.		552) β Lupi AR.		552) β Lupi Dekl.		555) β Bootis AR.		555) β Bootis Dekl.	
1930	14h 50m		+74° 25′		14h 52m		+14° 43′		14h 53m		−42° 51′		14h 59m		+40° 39′	
Jan. 1	51.81	76	71.31	246	53.662	316	33.82	239	54.073	414	3.22	65	17.324	352	42.92	274
11	52.57	84	68.85	187	53.978	328	31.43	216	54.487	427	3.87	99	17.676	373	40.18	230
21	53.41	88	66.98	124	54.306	332	29.27	185	54.914	429	4.86	128	18.049	383	37.88	179
31	54.29	90	65.74	55	54.638	326	27.42	149	55.343	420	6.14	153	18.432	381	36.09	123
Feb. 10	55.19	88	65.19	12	54.964	312	25.93	110	55.763	403	7.67	174	18.813	370	34.86	63
20	56.07	82	65.31	79	55.276	293	24.83	68	56.166	379	9.41	190	19.183	348	34.23	3
März 2	56.89	75	66.10	141	55.569	268	24.15	26	56.545	350	11.31	200	19.531	320	34.20	55
12	57.64	65	67.51	195	55.837	240	23.89	15	56.895	317	13.31	207	19.851	285	34.75	108
22	58.29	53	69.46	241	56.077	210	24.04	52	57.212	281	15.38	210	20.136	245	35.83	156
Apr. 1	58.82	39	71.87	275	56.287	179	24.56	84	57.493	245	17.48	208	20.381	204	37.39	196
11	59.21	26	74.62	299	56.466	147	25.40	110	57.738	207	19.56	205	20.585	161	39.35	225
21	59.47	12	77.61	310	56.613	117	26.50	131	57.945	168	21.61	198	20.746	118	41.60	246
Mai 1	59.59	2	80.71	311	56.730	86	27.81	143	58.113	129	23.59	187	20.864	74	44.06	256
10	[5] 59.57	16	83.82	299	[6] 56.816	56	29.24	151	[6] 58.242	89	25.46	176	[7] 20.938	32	46.62	257
20	59.41	29	86.81	278	56.872	26	30.75	151	58.331	48	27.22	160	20.970	8	49.19	248
30	59.12	40	89.59	250	56.898	2	32.26	146	58.379	9	28.82	142	20.962	47	51.67	233
Juni 9	58.72	50	92.09	212	56.896	30	33.72	136	58.388	32	30.24	121	20.915	82	54.00	210
19	58.22	59	94.21	169	56.866	55	35.08	123	58.356	69	31.45	98	20.833	116	56.10	180
29	57.63	67	95.90	122	56.811	80	36.31	106	58.287	105	32.43	73	20.717	145	57.90	146
Juli 9	56.96	72	97.12	71	56.731	102	37.37	85	58.182	136	33.16	45	20.572	171	59.36	109
19	56.24	75	97.83	19	56.629	120	38.22	64	58.046	163	33.61	16	20.401	192	60.45	67
29	55.49	77	98.02	35	56.509	133	38.86	40	57.883	184	33.77	14	20.209	207	61.12	25
Aug. 8	54.72	78	97.67	88	56.376	142	39.26	14	57.699	196	33.63	44	20.002	215	61.37	18
18	53.94	77	96.79	139	56.234	145	39.40	12	57.503	198	33.19	72	19.787	216	61.19	63
28	53.17	72	95.40	188	56.089	139	39.28	39	57.305	190	32.47	97	19.571	209	60.56	106
Sept. 7	52.45	67	93.52	234	55.950	127	38.89	67	57.115	170	31.50	119	19.362	194	59.50	149
17	51.78	59	91.18	277	55.823	106	38.22	95	56.945	140	30.31	137	19.168	170	58.01	190
27	51.19	51	88.41	313	55.717	78	37.27	124	56.805	98	28.94	148	18.998	136	56.11	228
Okt. 7	50.68	39	85.28	344	55.639	41	36.03	151	56.707	47	27.46	152	18.862	93	53.83	262
17	50.29	27	81.84	368	55.598	1	34.52	178	56.660	13	25.94	148	18.769	44	51.21	293
27	50.02	14	78.16	385	55.599	48	32.74	203	56.673	78	24.46	138	18.725	11	48.28	319
Nov. 6	49.88	2	74.31	393	55.647	99	30.71	224	56.751	144	23.08	119	18.736	70	45.09	337
16	49.90	17	70.38	390	55.746	148	28.47	243	56.895	209	21.89	95	18.806	131	41.72	347
26	50.07	31	66.48	379	55.894	196	26.04	254	57.104	271	20.94	64	18.937	190	38.25	349
Dez. 6	50.38	46	62.69	355	56.090	240	23.50	260	57.375	325	20.30	30	19.127	245	34.76	342
16	50.84	59	59.14	321	56.330	275	20.90	258	57.700	369	20.00	5	19.372	293	31.34	324
26	51.43	70	55.93	277	56.605	305	18.32	248	58.069	403	20.05	42	19.665	332	28.10	295
36	52.13		53.16		56.910		15.84		58.472		20.47		19.997		25.15	
Mittl. Ort	53.40		89.66		54.933		41.12		56.203		12.04		18.553		56.66	
sec δ, tg δ	3.728		+3.592		1.034		+0.263		1.364		−0.928		1.318		+0.859	

Scheinbare Sternörter 1930

Tag	556) γ Scorpii				557) ψ Bootis				558) ζ Lupi				560) γ Triang. austr.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	14h 59m		−25° 0′		15h 1m		+27° 12′		15h 7m		−51° 49′		15h 12m		−68° 25′	
Jan. 1	56.336	347	25.30	123	25.492	322	59.89	262	12.000	467	53.12	17	16.69	71	9.87	49
11	56.683	358	26.53	141	25.814	338	57.27	228	12.467	487	53.29	57	17.40	75	9.38	0
21	57.041	361	27.94	152	26.152	345	54.99	188	12.954	493	53.86	94	18.15	77	9.38	49
31	57.402	354	29.46	159	26.497	343	53.11	141	13.447	489	54.80	127	18.92	77	9.87	96
Feb. 10	57.756	340	31.05	161	26.840	331	51.70	90	13.936	472	56.07	157	19.69	75	10.83	139
20	58.096	321	32.66	158	27.171	311	50.80	39	14.408	449	57.64	183	20.44	72	12.22	179
März 2	58.417	296	34.24	152	27.482	287	50.41	13	14.857	418	59.47	202	21.16	67	14.01	212
12	58.713	269	35.76	144	27.769	258	50.54	62	15.275	382	61.49	218	21.83	61	16.13	241
22	58.982	240	37.20	133	28.027	225	51.16	104	15.657	343	63.67	228	22.44	55	18.54	264
Apr. 1	59.222	211	38.53	121	28.252	191	52.20	142	16.000	302	65.95	235	22.99	48	21.18	282
11	59.433	180	39.74	109	28.443	156	53.62	171	16.302	257	68.30	238	23.47	41	24.00	294
21	59.613	150	40.83	96	28.599	121	55.33	192	16.559	211	70.68	236	23.88	33	26.94	300
Mai 1	59.763	119	41.79	85	28.720	86	57.25	205	16.770	164	73.04	230	24.21	24	29.94	299
10*)	[7] 59.882	87	42.64	72	[3] 28.806	52	59.30	210	[9] 16.934	115	75.34	221	[11] 24.45	15	32.93	294
20	59.969	55	43.36	61	28.858	19	61.40	206	17.049	65	77.55	207	24.60	7	35.87	283
30	60.024	24	43.97	49	28.877	14	63.46	197	17.114	15	79.62	190	24.67	2	38.70	264
Juni 9	60.048	8	44.46	36	28.863	44	65.43	180	17.129	34	81.52	168	24.65	11	41.34	241
19	60.040	39	44.82	24	28.819	74	67.23	159	17.095	83	83.20	143	24.54	20	43.75	211
29	60.001	67	45.06	11	28.745	100	68.82	134	17.012	128	84.63	114	24.34	27	45.86	176
Juli 9	59.934	94	45.17	3	28.645	124	70.16	104	16.884	168	85.77	82	24.07	34	47.62	136
19	59.840	117	45.14	16	28.521	143	71.20	72	16.716	203	86.59	47	23.73	39	48.98	93
29	59.723	135	44.98	30	28.378	159	71.92	38	16.513	229	87.06	11	23.34	44	49.91	46
Aug. 8	59.588	147	44.68	42	28.219	168	72.30	3	16.284	246	87.17	26	22.90	46	50.37	3
18	59.441	151	44.26	53	28.051	171	72.33	33	16.038	251	86.91	61	22.44	47	50.34	51
28	59.290	146	43.73	62	27.880	166	72.00	69	15.787	243	86.30	96	21.97	46	49.83	98
Sept. 7	59.144	133	43.11	69	27.714	154	71.31	105	15.544	223	85.34	127	21.51	42	48.85	142
17	59.011	110	42.42	71	27.560	132	70.26	141	15.321	189	84.07	153	21.09	36	47.43	181
27	58.901	78	41.71	69	27.428	104	68.85	175	15.132	141	82.54	172	20.73	29	45.62	214
Okt. 7	58.823	37	41.02	63	27.324	67	67.10	207	14.991	82	80.82	185	20.44	19	43.48	237
17	58.786	11	40.39	51	27.257	22	65.03	237	14.909	14	78.97	189	20.25	7	41.11	251
27	58.797	63	39.88	36	27.235	27	62.66	263	14.895	61	77.08	185	20.18	5	38.60	255
Nov. 6	58.860	118	39.52	14	27.262	80	60.03	284	14.956	139	75.23	171	20.23	17	36.05	248
16	58.978	173	39.38	9	27.342	133	57.19	299	15.095	217	73.52	150	20.40	29	33.57	231
26	59.151	224	39.47	35	27.475	185	54.20	306	15.312	289	72.02	122	20.69	42	31.26	204
Dez. 6	59.375	270	39.82	61	27.660	232	51.14	306	15.601	354	70.80	87	21.11	52	29.22	168
16	59.645	308	40.43	87	27.892	274	48.08	296	15.955	409	69.93	49	21.63	61	27.54	127
26	59.953	336	41.30	110	28.166	307	45.12	277	16.364	451	69.44	10	22.24	68	26.27	81
36	60.289		42.40		28.473		42.35		16.815		69.34		22.92		25.46	
Mittl. Ort	58.065		29.18		26.753		70.61		14.592		62.91		20.88		21.93	
sec δ, tg δ	1.103		−0.466		1.124		+0.514		1.618		−1.272		2.719		−2.529	

*) Bei Stern 560) lies Mai 11

Tag	563) δ Bootis AR.		Dekl.		564) β Librae AR.		Dekl.		565) 1 H. Ursae min. AR.		Dekl.		566) φ' Lupi AR.		Dekl.	
1930	$15^h 12^m$		$+33° 34'$		$15^h 13^m$		$-9° 7'$		$15^h 13^m$		$+67° 36'$		$15^h 17^m$		$-36° 0'$	
Jan. 1	39.527	325	17.84	276	12.668	314	34.08	171	48.00	54	26.60	279	19.365	372	25.98	67
11	39.852	346	15.08	238	12.982	328	35.79	173	48.54	60	23.81	226	19.737	388	26.65	94
21	40.198	356	12.70	193	13.310	332	37.52	168	49.14	64	21.55	165	20.125	395	27.59	116
31	40.554	357	10.77	142	13.642	329	39.20	157	49.78	65	19.90	99	20.520	392	28.75	135
Feb. 10	40.911	348	9.35	87	13.971	318	40.77	141	50.43	65	18.91	31	20.912	380	30.10	150
20	41.259	331	8.48	30	14.289	301	42.18	123	51.08	62	18.60	38	21.292	362	31.60	158
März 2	41.590	306	8.18	25	14.590	281	43.41	101	51.70	57	18.98	102	21.654	339	33.18	165
12	41.896	277	8.43	78	14.871	257	44.42	79	52.27	52	20.00	162	21.993	312	34.83	167
22	42.173	244	9.21	124	15.128	231	45.21	56	52.79	44	21.62	212	22.305	283	36.50	166
Apr. 1	42.417	208	10.45	165	15.359	204	45.77	35	53.23	35	23.74	254	22.588	252	38.16	163
11	42.625	171	12.10	196	15.563	177	46.12	17	53.58	26	26.28	284	22.840	219	39.79	158
21	42.796	132	14.06	219	15.740	149	46.29	1	53.84	16	29.12	303	23.059	185	41.37	152
Mai 1	42.928	95	16.25	233	15.889	120	46.28	14	54.00	7	32.15	310	23.244	151	42.89	143
11	43.023	57	18.58	237	16.009	91	46.14	25	54.07	3	35.25	308	23.395	115	44.32	133
20	[11] 43.080	20	20.95	234	[11] 16.100	62	45.89	32	[11] 54.04	12	38.33	293	[12] 23.510	77	45.65	123
30	43.100	15	23.29	222	16.162	33	45.57	38	53.92	20	41.26	271	23.587	40	46.88	109
Juni 9	43.085	50	25.51	204	16.195	3	45.19	42	53.72	28	43.97	239	23.627	3	47.97	94
19	43.035	82	27.55	180	16.198	26	44.77	43	53.44	35	46.36	202	23.630	35	48.91	78
29	42.953	112	29.35	151	16.172	54	44.34	44	53.09	41	48.38	158	23.595	71	49.69	59
Juli 9	42.841	138	30.86	118	16.118	79	43.90	43	52.68	46	49.96	111	23.524	103	50.28	38
19	42.703	161	32.04	82	16.039	102	43.47	42	52.22	50	51.07	61	23.421	132	50.66	17
29	42.542	178	32.86	44	15.937	120	43.05	39	51.72	52	51.68	9	23.289	156	50.83	5
Aug. 8	42.364	189	33.30	4	15.817	133	42.66	36	51.20	53	51.77	44	23.133	171	50.78	28
18	42.175	193	33.34	36	15.684	139	42.30	32	50.67	53	51.33	96	22.962	179	50.50	50
28	41.982	191	32.98	77	15.545	138	41.98	25	50.14	52	50.37	147	22.783	177	50.00	70
Sept. 7	41.791	178	32.21	117	15.407	128	41.73	17	49.62	49	48.90	196	22.606	164	49.30	88
17	41.613	157	31.04	156	15.279	110	41.56	7	49.13	45	46.94	241	22.442	141	48.42	102
27	41.456	129	29.48	193	15.169	82	41.49	6	48.68	38	44.53	282	22.301	107	47.40	110
Okt. 7	41.327	90	27.55	228	15.087	47	41.55	22	48.30	31	41.71	319	22.194	62	46.30	113
17	41.237	45	25.27	260	15.040	4	41.77	39	47.99	23	38.52	349	22.132	11	45.17	110
27	41.192	6	22.67	286	15.036	43	42.16	60	47.76	13	35.03	372	22.121	47	44.07	101
Nov. 6	41.198	60	19.81	308	15.079	94	42.76	81	47.63	2	31.31	387	22.168	109	43.06	85
16	41.258	117	16.73	323	15.173	144	43.57	103	47.61	9	27.44	393	22.277	169	42.21	65
26	41.375	173	13.50	329	15.317	192	44.60	123	47.70	20	23.51	387	22.446	228	41.56	39
Dez. 6	41.548	224	10.21	327	15.509	236	45.83	141	47.90	31	19.64	372	22.674	279	41.17	10
16	41.772	269	6.94	314	15.745	274	47.24	157	48.21	40	15.92	345	22.953	324	41.07	19
26	42.041	307	3.80	293	16.019	302	48.81	167	48.61	49	12.47	307	23.277	359	41.26	49
36	42.348		0.87		16.321		50.48		49.10		9.40		23.636		41.75	
Mittl. Ort	40.842		30.09		14.233		32.91		49.68		44.09		21.422		31.62	
sec δ, tg δ	1.200		+0.664		1.013		−0.161		2.626		+2.428		1.236		−0.727	

Scheinbare Sternörter 1930

Tag	569) γ Ursae min. AR.		Dekl.		568) μ Bootis AR.		Dekl.		571) ι Draconis AR.		Dekl.		572) β Coron. bor. AR.		Dekl.	
1930	$15^{h}\ 20^{m}$		$+72^{\circ}\ 4'$		$15^{h}\ 21^{m}$		$+37^{\circ}\ 36'$		$15^{h}\ 23^{m}$		$+59^{\circ}\ 12'$		$15^{h}\ 24^{m}$		$+29^{\circ}\ 20'$	
Jan. 1	47.53	62	41.38	279	49.361	325	65.29	284	20.639	422	22.25	293	55.180	309	34.24	274
11	48.15	70	38.59	227	49.686	351	62.45	246	21.061	467	19.32	243	55.489	330	31.50	241
21	48.85	75	36.32	165	50.037	364	59.99	198	21.528	495	16.89	185	55.819	342	29.09	200
31	49.60	78	34.67	100	50.401	367	58.01	144	22.023	508	15.04	122	56.161	345	27.09	153
Feb. 10	50.38	78	33.67	31	50.768	360	56.57	87	22.531	505	13.82	56	56.506	338	25.56	101
20	51.16	75	33.36	37	51.128	345	55.70	28	23.036	486	13.26	13	56.844	323	24.55	47
März 2	51.91	70	33.73	102	51.473	322	55.42	30	23.522	454	13.39	78	57.167	303	24.08	7
12	52.61	63	34.75	162	51.795	293	55.72	86	23.976	410	14.17	138	57.470	276	24.15	58
22	53.24	54	36.37	213	52.088	259	56.58	134	24.386	356	15.55	191	57.746	246	24.73	105
Apr. 1	53.78	43	38.50	255	52.347	222	57.92	177	24.742	296	17.46	235	57.992	215	25.78	145
11	54.21	32	41.05	287	52.569	183	59.69	210	25.038	230	19.81	269	58.207	180	27.23	178
21	54.53	20	43.92	306	52.752	143	61.79	235	25.268	163	22.50	292	58.387	145	29.01	202
Mai 1	54.73	7	46.98	314	52.895	102	64.14	250	25.431	94	25.42	303	58.532	109	31.03	218
11	54.80	4	50.12	311	52.997	62	66.64	254	25.525	25	28.45	305	58.641	74	33.21	225
20	[13] 54.76	16	53.23	298	[15] 53.059	22	69.18	252	[13] 25.550	41	31.50	295	[14] 58.715	38	35.46	225
30	54.60	26	56.21	275	53.081	17	71.70	239	25.509	104	34.45	277	58.753	4	37.71	216
Juni 9	54.34	37	58.96	245	53.064	54	74.09	220	25.405	163	37.22	250	58.757	31	39.87	201
19	53.97	45	61.41	206	53.010	89	76.29	195	25.242	217	39.72	215	58.726	64	41.88	180
29	53.52	53	63.47	164	52.921	122	78.24	165	25.025	265	41.87	176	58.662	94	43.68	154
Juli 9	52.99	59	65.11	116	52.799	150	79.89	129	24.760	305	43.63	132	58.568	121	45.22	125
19	52.40	64	66.27	66	52.649	175	81.18	91	24.455	339	44.95	84	58.447	145	46.47	92
29	51.76	68	66.93	13	52.474	194	82.09	51	24.116	363	45.79	34	58.302	164	47.39	57
Aug. 8	51.08	69	67.06	39	52.280	207	82.60	9	23.753	377	46.13	16	58.138	177	47.96	19
18	50.39	69	66.67	92	52.073	213	82.69	34	23.376	382	45.97	68	57.961	185	48.15	18
28	49.70	67	65.75	143	51.860	210	82.35	77	22.994	374	45.29	119	57.776	184	47.97	56
Sept. 7	49.03	64	64.32	192	51.650	200	81.58	120	22.620	356	44.10	167	57.592	175	47.41	95
17	48.39	58	62.40	238	51.450	179	80.38	160	22.264	325	42.43	214	57.417	156	46.46	132
27	47.81	52	60.02	279	51.271	150	78.78	200	21.939	283	40.29	257	57.261	130	45.14	169
Okt. 7	47.29	43	57.23	315	51.121	112	76.78	237	21.656	227	37.72	296	57.131	95	43.45	203
17	46.86	32	54.08	347	51.009	66	74.41	270	21.429	163	34.76	329	57.036	51	41.42	235
27	46.54	21	50.61	369	50.943	13	71.71	298	21.266	88	31.47	355	56.985	3	39.07	263
Nov. 6	46.33	8	46.92	385	50.930	43	68.73	319	21.178	8	27.92	374	56.982	50	36.44	286
16	46.25	6	43.07	391	50.973	103	65.54	335	21.170	78	24.18	385	57.032	105	33.58	303
26	46.31	19	39.16	386	51.076	160	62.19	341	21.248	162	20.33	384	57.137	158	30.55	313
Dez. 6	46.50	32	35.30	371	51.236	215	58.78	339	21.410	244	16.49	373	57.295	209	27.42	315
16	46.82	45	31.59	345	51.451	264	55.39	325	21.654	321	12.76	351	57.504	254	24.27	306
26	47.27	55	28.14	307	51.715	305	52.14	303	21.975	386	9.25	317	57.758	290	21.21	288
36	47.82		25.07		52.020		49.11		22.361		6.08		58.048		18.33	
Mittl. Ort	49.526		59.04		50.733		78.37		22.202		38.73		56.569		45.59	
sec δ, tg δ	3.251		+3.093		1.262		+0.771		1.954		+1.678		1.147		+0.562	

Tag	573) ν¹ Bootis AR.	Δ	Dekl.	Δ	575) γ Lupi AR.	Δ	Dekl.	Δ	577) γ Librae AR.	Δ	Dekl.	Δ	578) α Coron. bor. AR.	Δ	Dekl.	Δ
1930	15h 28m		+41° 3′		15h 30m		−40° 55′		15h 31m		−14° 33′		15h 31m		+26° 56′	
Jan. 1	23.449	328	61.23	292	25.770	385	52.71	34	34.711	311	26.73	143	41.988	301	46.37	272
11	23.777	357	58.31	251	26.155	406	53.05	65	35.022	329	28.16	149	42.289	324	43.65	242
21	24.134	373	55.80	203	26.561	416	53.70	91	35.351	336	29.65	150	42.613	336	41.23	204
31	24.507	379	53.77	147	26.977	416	54.61	114	35.687	336	31.15	146	42.949	339	39.19	158
Feb. 10	24.886	374	52.30	88	27.393	407	55.75	134	36.023	328	32.61	136	43.288	334	37.61	108
20	25.260	360	51.42	26	27.800	390	57.09	148	36.351	314	33.97	124	43.622	321	36.53	56
März 2	25.620	338	51.16	34	28.190	369	58.57	161	36.665	296	35.21	108	43.943	301	35.97	4
12	25.958	307	51.50	90	28.559	343	60.18	168	36.961	275	36.29	90	44.244	277	35.93	47
22	26.265	273	52.40	142	28.902	313	61.86	172	37.236	251	37.19	73	44.521	249	36.40	93
Apr. 1	26.538	235	53.82	185	29.215	282	63.58	174	37.487	225	37.92	55	44.770	219	37.33	134
11	26.773	194	55.67	220	29.497	248	65.32	174	37.712	199	38.47	39	44.989	186	38.67	166
21	26.967	152	57.87	246	29.745	213	67.06	171	37.911	171	38.86	25	45.175	153	40.33	192
Mai 1	27.119	109	60.33	262	29.958	176	68.77	165	38.082	143	39.11	13	45.328	118	42.25	208
11	27.228	66	62.95	267	30.134	136	70.42	157	38.225	114	39.24	3	45.446	83	44.33	217
20	27.294	23	65.62	263	30.270	96	71.99	149	38.339	83	39.27	5	45.529	48	46.50	217
30	27.317	19	68.25	252	30.366	55	73.48	137	38.422	51	39.22	11	45.577	14	48.67	211
Juni 9	27.298	59	70.77	232	30.421	13	74.85	121	38.473	20	39.11	16	45.591	19	50.78	197
19	27.239	97	73.09	206	30.434	28	76.06	104	38.493	12	38.95	21	45.572	52	52.75	178
29	27.142	131	75.15	174	30.406	69	77.10	85	38.481	42	38.74	24	45.520	83	54.53	154
Juli 9	27.011	162	76.89	137	30.337	107	77.95	63	38.439	72	38.50	26	45.437	112	56.07	126
19	26.849	188	78.26	98	30.230	140	78.58	38	38.367	97	38.24	29	45.325	137	57.33	96
29	26.661	210	79.24	56	30.090	167	78.96	12	38.270	119	37.95	31	45.188	156	58.29	62
Aug. 8	26.451	223	79.80	12	29.923	186	79.08	15	38.151	135	37.64	33	45.032	171	58.91	26
18	26.228	231	79.92	34	29.737	197	78.93	40	38.016	145	37.31	33	44.861	179	59.17	9
28	25.997	229	79.58	78	29.540	197	78.53	66	37.871	146	36.98	32	44.682	180	59.08	46
Sept. 7	25.768	219	78.80	122	29.343	186	77.87	89	37.725	139	36.66	30	44.502	172	58.62	84
17	25.549	198	77.58	165	29.157	164	76.98	107	37.586	122	36.36	25	44.330	155	57.78	120
27	25.351	169	75.93	206	28.993	128	75.91	123	37.464	96	36.11	17	44.175	130	56.58	156
Okt. 7	25.182	130	73.87	244	28.865	84	74.68	131	37.368	62	35.94	6	44.045	95	55.02	190
17	25.052	83	71.43	278	28.781	29	73.37	132	37.306	20	35.88	7	43.950	54	53.12	222
27	24.969	29	68.65	306	28.752	32	72.05	128	37.286	27	35.95	24	43.896	6	50.90	250
Nov. 6	24.940	30	65.59	330	28.784	96	70.77	117	37.313	79	36.19	43	43.890	46	48.40	274
16	24.970	91	62.29	345	28.880	162	69.60	98	37.392	131	36.62	64	43.936	99	45.66	292
26	25.061	151	58.84	351	29.042	224	68.62	75	37.523	181	37.26	84	44.035	152	42.74	304
Dez. 6	25.212	209	55.33	348	29.266	282	67.87	47	37.704	227	38.10	104	44.187	202	39.70	306
16	25.421	262	51.85	335	29.548	330	67.40	17	37.931	267	39.14	121	44.389	246	36.64	301
26	25.683	306	48.50	310	29.878	370	67.23	14	38.198	299	40.35	135	44.635	284	33.63	285
36	25.989		45.40		30.248		67.37		38.497		41.70		44.919		30.78	
Mittl. Ort	24.872		74.92		28.041		58.55		36.423		26.21		43.415		57.22	
sec δ, tg δ	1.326		+0.871		1.324		−0.867		1.033		−0.260		1.122		+0.508	

Scheinbare Sternörter 1930

Tag	582) α Serpentis				583) β Serpentis				584) κ Serpentis				585) μ Serpentis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	15h 40m		+6° 38′		15h 42m		+15° 37′		15h 45m		+18° 21′		15h 45m		−3° 13′	
Jan. 1	47.559	289	34.70	218	55.858	286	74.60	247	33.776	285	14.63	255	56.237	290	6.12	182
11	47.848	308	32.52	205	56.144	308	72.13	226	34.061	307	12.08	232	56.527	309	7.94	178
21	48.156	318	30.47	185	56.452	320	69.87	198	34.368	321	9.76	202	56.836	320	9.72	167
31	48.474	320	28.62	159	56.772	323	67.89	163	34.689	325	7.74	164	57.156	322	11.39	151
Feb. 10	48.794	315	27.03	127	57.095	319	66.26	123	35.014	321	6.10	122	57.478	318	12.90	129
20	49.109	304	25.76	92	57.414	308	65.03	80	35.335	311	4.88	77	57.796	306	14.19	105
März 2	49.413	287	24.84	56	57.722	292	64.23	35	35.646	295	4.11	30	58.102	291	15.24	78
12	49.700	267	24.28	20	58.014	271	63.88	8	35.941	274	3.81	16	58.393	272	16.02	50
22	49.967	244	24.08	15	58.285	247	63.96	49	36.215	250	3.97	58	58.665	250	16.52	23
Apr. 1	50.211	219	24.23	47	58.532	222	64.45	85	36.465	224	4.55	96	58.915	226	16.75	2
11	50.430	193	24.70	73	58.754	193	65.30	116	36.689	195	5.51	128	59.141	201	16.73	24
21	50.623	165	25.43	95	58.947	164	66.46	140	36.884	166	6.79	153	59.342	175	16.49	43
Mai 1	50.788	137	26.38	111	59.111	134	67.86	158	37.050	135	8.32	171	59.517	148	16.06	58
11	[18] 50.925	107	27.49	121	[18] 59.245	103	69.44	169	[19] 37.185	103	10.03	182	[19] 59.665	118	15.48	67
20	51.032	77	28.70	126	59.348	71	71.13	172	37.288	71	11.85	185	59.783	89	14.81	74
30	51.109	45	29.96	127	59.419	38	72.85	169	37.359	38	13.70	183	59.872	58	14.07	77
Juni 9	51.154	15	31.23	123	59.457	7	74.54	162	37.397	5	15.53	174	59.930	26	13.30	77
19	51.169	16	32.46	115	59.464	25	76.16	150	37.402	27	17.27	160	59.956	6	12.53	74
29	51.153	46	33.61	104	59.439	56	77.66	133	37.375	59	18.87	142	59.950	36	11.79	69
Juli 9	51.107	74	34.65	90	59.383	84	78.99	112	37.316	87	20.29	120	59.914	65	11.10	63
19	51.033	99	35.55	74	59.299	110	80.11	90	37.229	114	21.49	95	59.849	92	10.47	55
29	50.934	121	36.29	57	59.189	131	81.01	66	37.115	136	22.44	69	59.757	114	9.92	46
Aug. 8	50.813	137	36.86	38	59.058	148	81.67	38	36.979	153	23.13	39	59.643	132	9.46	36
18	50.676	148	37.24	19	58.910	159	82.05	11	36.826	163	23.52	10	59.511	144	9.10	25
28	50.528	150	37.43	3	58.751	161	82.16	17	36.663	167	23.62	21	59.367	148	8.85	14
Sept. 7	50.378	144	37.40	25	58.590	156	81.99	47	36.496	161	23.41	52	59.219	142	8.71	0
17	50.234	131	37.15	48	58.434	141	81.52	77	36.335	148	22.89	84	59.077	129	8.71	14
27	50.103	108	36.67	71	58.293	119	80.75	107	36.187	125	22.05	116	58.948	107	8.85	30
Okt. 7	49.995	76	35.96	96	58.174	87	79.68	136	36.062	93	20.89	147	58.841	75	9.15	48
17	49.919	38	35.00	120	58.087	49	78.32	165	35.969	55	19.42	177	58.766	36	9.63	68
27	49.881	7	33.80	145	58.038	4	76.67	191	35.914	10	17.65	204	58.730	9	10.31	89
Nov. 6	49.888	56	32.35	168	58.034	45	74.76	216	35.904	40	15.61	228	58.739	57	11.20	109
16	49.944	105	30.67	188	58.079	97	72.60	236	35.944	91	13.33	249	58.796	108	12.29	129
26	50.049	155	28.79	204	58.176	146	70.24	251	36.035	142	10.84	264	58.904	156	13.58	147
Dez. 6	50.204	200	26.75	217	58.322	194	67.73	259	36.177	189	8.20	271	59.060	202	15.05	163
16	50.404	240	24.58	222	58.516	235	65.14	261	36.366	232	5.49	271	59.262	243	16.68	174
26	50.644	274	22.36	221	58.751	270	62.53	254	36.598	269	2.78	263	59.505	275	18.42	179
36	50.918		20.15		59.021		59.99		36.867		0.15		59.780		20.21	
Mittl. Ort	49.106		40.93		57.368		82.99		35.289		23.67		57.881		2.17	
sec δ, tg δ	1.007		+0.116		1.038		+0.280		1.054		+0.332		1.002		−0.056	

Tag	590) ζ Ursae min. AR.		590) ζ Ursae min. Dekl.		588) ε Serpentis AR.		588) ε Serpentis Dekl.		589) β Triang. austr. AR.		589) β Triang. austr. Dekl.		593) ε Coron. bor. AR.		593) ε Coron. bor. Dekl.	
1930	15h 46m		+78° 0′		15h 47m		+4° 40′		15h 48m		−63° 12′		15h 54m		+27° 4′	
Jan. 1	27.88s	77	21.20″	294	17.905s	285	68.13″	211	53.68s	57	51.36″	77	39.761s	283	35.26″	278
11	28.65	90	18.26	245	18.190	305	66.02	199	54.25	61	50.59	34	40.044	310	32.48	250
21	29.55	101	15.81	187	18.495	316	64.03	182	54.86	64	50.25	9	40.354	326	29.98	214
31	30.56	108	13.94	124	18.811	320	62.21	157	55.50	64	50.34	51	40.680	334	27.84	170
Feb. 10	31.64	110	12.70	57	19.131	315	60.64	128	56.14	65	50.85	91	41.014	333	26.14	121
20	32.74	110	12.13	12	19.446	305	59.36	95	56.79	62	51.76	127	41.347	325	24.93	69
März 2	33.84	104	12.25	77	19.751	289	58.41	60	57.41	60	53.03	159	41.672	309	24.24	15
12	34.88	95	13.02	139	20.040	271	57.81	26	58.01	57	54.62	188	41.981	289	24.09	37
22	35.83	84	14.41	194	20.311	248	57.55	8	58.58	52	56.50	212	42.270	265	24.46	84
Apr. 1	36.67	69	16.35	239	20.559	224	57.63	39	59.10	47	58.62	232	42.535	237	25.30	127
11	37.36	53	18.74	275	20.783	199	58.02	64	59.57	42	60.94	247	42.772	207	26.57	164
21	37.89	36	21.49	299	20.982	172	58.66	85	59.99	36	63.41	258	42.979	174	28.21	191
Mai 1	38.25	17	24.48	313	21.154	144	59.51	102	60.35	29	65.99	263	43.153	141	30.12	211
11	38.42	0	27.61	314	21.298	114	60.53	113	60.64	22	68.62	264	43.294	106	32.23	223
20*)	38.42	19	30.75	305	21.412	84	61.66	118	60.86	15	71.26	260	43.400	71	34.46	226
30	38.23	36	33.80	289	21.496	54	62.84	119	61.01	8	73.86	249	43.471	35	36.72	221
Juni 9	37.87	52	36.69	262	21.550	22	64.03	116	61.09	0	76.35	233	43.506	1	38.93	211
19	37.35	66	39.31	227	21.572	10	65.19	109	61.09	7	78.68	212	43.505	36	41.04	193
29	36.69	79	41.58	187	21.562	40	66.28	99	61.02	15	80.80	186	43.469	70	42.97	170
Juli 9	35.90	90	43.45	143	21.522	69	67.27	87	60.87	21	82.66	153	43.399	102	44.67	144
19	35.00	98	44.88	94	21.453	96	68.14	73	60.66	27	84.19	117	43.297	130	46.11	113
29	34.02	105	45.82	43	21.357	118	68.87	57	60.39	32	85.36	77	43.167	154	47.24	80
Aug. 8	32.97	108	46.25	9	21.239	135	69.44	40	60.07	35	86.13	34	43.013	172	48.04	45
18	31.89	110	46.16	61	21.104	147	69.84	21	59.72	37	86.47	10	42.841	184	48.49	9
28	30.79	108	45.55	112	20.957	151	70.05	2	59.35	38	86.37	54	42.657	188	48.58	29
Sept. 7	29.71	105	44.43	162	20.806	146	70.07	18	58.97	36	85.83	98	42.469	184	48.29	66
17	28.66	98	42.81	209	20.660	132	69.89	39	58.61	33	84.85	137	42.285	171	47.63	104
27	27.68	89	40.72	252	20.528	111	69.50	62	58.28	28	83.48	171	42.114	149	46.59	141
Okt. 7	26.79	78	38.20	292	20.417	80	68.88	85	58.00	20	81.77	199	41.965	117	45.18	176
17	26.01	64	35.28	326	20.337	42	68.03	109	57.80	12	79.78	218	41.848	78	43.42	209
27	25.37	48	32.02	352	20.295	2	66.94	132	57.68	3	77.60	229	41.770	32	41.33	240
Nov. 6	24.89	30	28.50	371	20.297	51	65.62	154	57.65	8	75.31	230	41.738	19	38.93	266
16	24.59	11	24.79	383	20.348	101	64.08	175	57.73	19	73.01	220	41.757	73	36.27	286
26	24.48	9	20.96	383	20.449	149	62.33	192	57.92	28	70.81	202	41.830	126	33.41	300
Dez. 6	24.57	29	17.13	372	20.598	196	60.41	205	58.20	38	68.79	176	41.956	177	30.41	306
16	24.86	49	13.41	351	20.794	236	58.36	212	58.58	47	67.03	142	42.133	224	27.35	303
26	25.35	66	9.90	318	21.030	269	56.24	212	59.05	53	65.61	104	42.357	263	24.32	290
36	26.01		6.72		21.299		54.12		59.58		64.57		42.620		21.42	
Mittl. Ort	31.11		38.38		19.492		74.04		57.46		59.56		41.304		46.18	
sec δ, tg δ	4.814		+4.709		1.003		+0.082		2.219		−1.981		1.123		+0.511	

*) Bei Stern 593) lies Mai 21

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Tag	594) δ Scorpii AR.		Dekl.		598) ϑ Draconis AR.		Dekl.		597) β Scorpii AR.		Dekl.		603) δ Ophiuchi AR.		Dekl.	
1930	15h 56m		−22° 25′		16h 0m		+58° 44′		16h 1m		−19° 36′		16h 10m		−3° 30′	
Jan. 1	9.490	311	26.29	95	32.595	364	50.80	320	19.868	302	55.85	105	38.769	274	60.31	173
11	9.801	332	27.24	107	32.959	417	47.60	276	20.170	324	56.90	114	39.043	297	62.04	170
21	10.133	344	28.31	116	33.376	458	44.84	223	20.494	337	58.04	120	39.340	312	63.74	160
31	10.477	348	29.47	120	33.834	483	42.61	164	20.831	341	59.24	121	39.652	318	65.34	144
Feb. 10	10.825	345	30.67	120	34.317	493	40.97	98	21.172	338	60.45	118	39.970	317	66.78	124
20	11.170	335	31.87	115	34.810	487	39.99	30	21.510	330	61.63	111	40.287	310	68.02	100
März 2	11.505	320	33.02	109	35.297	468	39.69	37	21.840	316	62.74	101	40.597	299	69.02	73
12	11.825	301	34.11	99	35.765	437	40.06	101	22.156	299	63.75	89	40.896	284	69.75	46
22	12.126	281	35.10	89	36.202	393	41.07	159	22.455	279	64.64	76	41.180	265	70.21	18
Apr. 1	12.407	257	35.99	79	36.595	343	42.66	210	22.734	256	65.40	64	41.445	244	70.39	7
11	12.664	231	36.78	69	36.938	285	44.76	251	22.990	231	66.04	52	41.689	222	70.32	29
21	12.895	205	37.47	58	37.223	222	47.27	282	23.221	206	66.56	41	41.911	197	70.03	47
Mai 1	13.100	176	38.05	50	37.445	156	50.09	303	23.427	178	66.97	32	42.108	170	69.56	62
11	13.276	145	38.55	43	37.601	88	53.12	312	23.605	147	67.29	24	42.278	142	68.94	73
21	13.421	113	38.98	36	37.689	21	56.24	311	23.752	116	67.53	18	42.420	112	68.21	79
	22				23				23				25			
30	13.534	79	39.34	30	37.710	46	59.35	300	23.868	82	67.71	13	42.532	80	67.42	82
Juni 9	13.613	43	39.64	24	37.664	110	62.35	280	23.950	48	67.84	8	42.612	47	66.60	81
19	13.656	8	39.88	18	37.554	171	65.15	253	23.998	12	67.92	3	42.659	14	65.79	77
29	13.664	27	40.06	11	37.383	226	67.68	217	24.010	22	67.95	1	42.673	19	65.02	73
Juli 9	13.637	61	40.17	5	37.157	276	69.85	178	23.988	57	67.94	5	42.654	52	64.29	66
19	13.576	92	40.22	3	36.881	318	71.63	134	23.931	87	67.89	10	42.602	81	63.63	57
29	13.484	119	40.19	10	36.563	352	72.97	85	23.844	115	67.79	15	42.521	108	63.06	48
Aug. 8	13.365	140	40.09	19	36.211	378	73.82	36	23.729	135	67.64	20	42.413	129	62.58	38
18	13.225	154	39.90	27	35.833	392	74.18	14	23.594	151	67.44	25	42.284	144	62.20	26
28	13.071	159	39.63	34	35.441	396	74.04	67	23.443	157	67.19	30	42.140	152	61.94	15
Sept. 7	12.912	156	39.29	39	35.045	387	73.37	118	23.286	154	66.89	33	41.988	151	61.79	2
17	12.756	142	38.90	43	34.658	366	72.19	166	23.132	142	66.56	33	41.837	141	61.77	12
27	12.614	118	38.47	43	34.292	332	70.53	213	22.990	120	66.23	32	41.696	122	61.89	27
Okt. 7	12.496	85	38.04	41	33.960	285	68.40	257	22.870	87	65.91	28	41.574	93	62.16	44
17	12.411	43	37.63	34	33.675	226	65.83	296	22.783	47	65.63	19	41.481	57	62.60	62
27	12.368	5	37.29	24	33.449	158	62.87	329	22.736	0	65.44	8	41.424	14	63.22	82
Nov. 6	12.373	59	37.05	10	33.291	81	59.58	355	22.736	52	65.36	7	41.410	34	64.04	101
16	12.432	112	36.95	7	33.210	1	56.03	373	22.788	105	65.43	23	41.444	84	65.05	121
26	12.544	166	37.02	27	33.211	87	52.30	381	22.893	158	65.66	42	41.528	133	66.26	138
Dez. 6	12.710	216	37.29	46	33.298	171	48.49	378	23.051	207	66.08	61	41.661	180	67.64	153
16	12.926	259	37.75	66	33.469	251	44.71	365	23.258	249	66.69	79	41.841	222	69.17	165
26	13.185	295	38.41	84	33.720	322	41.06	339	23.507	286	67.48	94	42.063	258	70.82	171
36	13.480		39.25		34.042		37.67		23.793		68.42		42.321		72.53	
Mittl. Ort	11.420		26.39		34.500		66.34		21.770		55.05		40.508		55.58	
sec δ, tg δ	1.082		−0.413		1.928		+1.648		1.062		−0.356		1.002		−0.061	

Tag	606) 19 Ursae min. AR.		606) 19 Ursae min. Dekl.		604) γ^2 Normae AR.		604) γ^2 Normae Dekl.	
1930	16h 12m		+76° 2′		16h 14m		−49° 59′	
Jan. 1	44.31	58	60.03	318	32.670	401	3.89	50
11	44.89	73	56.85	273	33.071	437	3.39	19
21	45.62	83	54.12	221	33.508	460	3.20	13
31	46.45	90	51.91	160	33.968	472	3.33	43
Feb. 10	47.35	95	50.31	94	34.440	474	3.76	70
20	48.30	95	49.37	26	34.914	466	4.46	96
März 2	49.25	93	49.11	41	35.380	452	5.42	117
12	50.18	87	49.52	106	35.832	432	6.59	136
22	51.05	79	50.58	165	36.264	406	7.95	153
Apr. 1	51.84	68	52.23	216	36.670	376	9.48	165
11	52.52	55	54.39	257	37.046	342	11.13	176
21	53.07	41	56.96	289	37.388	304	12.89	183
Mai 1	53.48	26	59.85	309	37.692	263	14.72	188
11	53.74	10	62.94	318	37.955	217	16.60	189
21	53.84	5	66.12	317	38.172	169	18.49	188
30	53.79	21	69.29	306	38.341	117	20.37	183
Juni 9	53.58	35	72.35	283	38.458	64	22.20	173
19	53.23	48	75.18	256	38.522	10	23.93	161
29	52.75	61	77.74	221	38.532	44	25.54	143
Juli 9	52.14	71	79.95	179	38.488	96	26.97	121
19	51.43	80	81.74	135	38.392	143	28.18	97
29	50.63	88	83.09	85	38.249	185	29.15	68
Aug. 8	49.75	92	83.94	35	38.064	217	29.83	37
18	48.83	95	84.29	17	37.847	241	30.20	4
28	47.88	95	84.12	69	37.606	251	30.24	30
Sept. 7	46.93	94	83.43	121	37.355	248	29.94	62
17	45.99	90	82.22	169	37.107	232	29.32	93
27	45.09	84	80.53	217	36.875	200	28.39	120
Okt. 7	44.25	74	78.36	260	36.675	156	27.19	142
17	43.51	64	75.76	298	36.519	100	25.77	158
27	42.87	50	72.78	331	36.419	33	24.19	166
Nov. 6	42.37	36	69.47	356	36.386	40	22.53	167
16	42.01	19	65.91	374	36.426	115	20.86	161
26	41.82	2	62.17	381	36.541	189	19.25	146
Dez. 6	41.80	16	58.36	378	36.730	260	17.79	126
16	41.96	33	54.58	363	36.990	324	16.53	101
26	42.29	49	50.95	338	37.314	377	15.52	71
36	42.78		47.57		37.691		14.81	
Mittl. Ort	47.71		76.18		35.526		7.97	
sec δ, tg δ	4.149		+4.027		1.555		−1.191	

Tag	605) ε Ophiuchi AR.		605) ε Ophiuchi Dekl.		608) τ Herculis AR.		608) τ Herculis Dekl.	
1930	16h 14m		−4° 31′		16h 17m		+46° 28′	
Jan. 1	35.146	273	28.44	167	36.356	291	31.48	322
11	35.419	296	30.11	164	36.647	332	28.26	286
21	35.715	310	31.75	156	36.979	364	25.40	241
31	36.025	318	33.31	141	37.343	383	22.99	187
Feb. 10	36.343	318	34.72	122	37.726	393	21.12	127
20	36.661	312	35.94	98	38.119	391	19.85	63
März 2	36.973	301	36.92	73	38.510	379	19.22	1
12	37.274	286	37.65	47	38.889	359	19.23	63
22	37.560	268	38.12	20	39.248	331	19.86	122
Apr. 1	37.828	248	38.32	4	39.579	297	21.08	173
11	38.076	225	38.28	26	39.876	259	22.81	217
21	38.301	202	38.02	45	40.135	215	24.98	251
Mai 1	38.503	175	37.57	58	40.350	170	27.49	276
11	38.678	146	36.99	68	40.520	121	30.25	290
21	38.824	117	36.31	75	40.641	73	33.15	294
30	38.941	85	35.56	78	40.714	23	36.09	289
Juni 9	39.026	51	34.78	77	40.737	27	38.98	276
19	39.077	18	34.01	74	40.710	74	41.74	253
29	39.095	16	33.27	70	40.636	119	44.27	225
Juli 9	39.079	48	32.57	63	40.517	161	46.52	192
19	39.031	79	31.94	55	40.356	199	48.44	152
29	38.952	106	31.39	47	40.157	231	49.96	110
Aug. 8	38.846	128	30.92	37	39.926	256	51.06	65
18	38.718	144	30.55	27	39.670	273	51.71	18
28	38.574	152	30.28	17	39.397	281	51.89	31
Sept. 7	38.422	152	30.11	5	39.116	279	51.58	78
17	38.270	142	30.06	9	38.837	267	50.80	125
27	38.128	123	30.15	23	38.570	243	49.55	172
Okt. 7	38.005	96	30.38	39	38.327	209	47.83	216
17	37.909	59	30.77	56	38.118	165	45.67	255
27	37.850	17	31.33	75	37.953	112	43.12	292
Nov. 6	37.833	31	32.08	94	37.841	53	40.20	321
16	37.864	81	33.02	113	37.788	12	36.99	343
26	37.945	130	34.15	130	37.800	77	33.56	358
Dez. 6	38.075	178	35.45	146	37.877	143	29.98	361
16	38.253	220	36.91	157	38.020	205	26.37	355
26	38.473	256	38.48	163	38.225	261	22.82	337
36	38.729		40.11		38.486		19.45	
Mittl. Ort	36.908		23.79		38.138		45.21	
sec δ, tg δ	1.003		−0.079		1.452		+1.053	

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Tag	609) γ Herculis AR.		609) γ Herculis Dekl.		611) γ Apodis AR.		611) γ Apodis Dekl.		615) η Draconis AR.		615) η Draconis Dekl.		616) α Scorpii AR.		616) α Scorpii Dekl.	
1930	16ʰ 18ᵐ		+19° 18′		16ʰ 22ᵐ		−78° 44′		16ʰ 23ᵐ		+61° 39′		16ʰ 25ᵐ		−26° 16′	
Jan. 1	48.199	260	49.44	260	30.83	107	29.76	175	0.11	35	65.29	334	4.594	299	42.40	57
11	48.459	287	46.84	240	31.90	121	28.01	131	0.46	41	61.95	294	4.893	325	42.97	70
21	48.746	306	44.44	211	33.11	131	26.70	84	0.87	47	59.01	244	5.218	343	43.67	82
31	49.052	317	42.33	174	34.42	137	25.86	35	1.34	50	56.57	186	5.561	352	44.49	89
Feb. 10	49.369	319	40.59	133	35.79	140	25.51	14	1.84	52	54.71	122	5.913	353	45.38	93
20	49.688	315	39.26	87	37.19	140	25.65	61	2.36	53	53.49	54	6.266	349	46.31	93
März 2	50.003	305	38.39	39	38.59	137	26.26	107	2.89	51	52.95	13	6.615	339	47.24	90
12	50.308	289	38.00	9	39.96	131	27.33	148	3.40	48	53.08	80	6.954	325	48.14	87
22	50.597	271	38.09	54	41.27	124	28.81	187	3.88	45	53.88	142	7.279	307	49.01	81
Apr. 1	50.868	248	38.63	94	42.51	114	30.68	220	4.33	40	55.30	195	7.586	287	49.82	75
11	51.116	223	39.57	130	43.65	102	32.88	249	4.73	34	57.25	241	7.873	264	50.57	69
21	51.339	196	40.87	158	44.67	89	35.37	273	5.07	27	59.66	276	8.137	239	51.26	63
Mai 1	51.535	166	42.45	179	45.56	74	38.10	291	5.34	20	62.42	302	8.376	211	51.89	59
11	51.701	135	44.24	194	46.30	58	41.01	303	5.54	13	65.44	316	8.587	179	52.48	54
21	51.836	101	46.18	200	46.88	40	44.04	308	5.67	5	68.60	318	8.766	147	53.02	50
30	[27] 51.937	67	48.18	200	[28] 47.28	22	47.12	307	[28] 5.72	2	71.78	313	[29] 8.913	111	53.52	47
Juni 9	52.004	32	50.18	193	47.50	3	50.19	298	5.70	10	74.91	296	9.024	74	53.99	42
19	52.036	3	52.11	181	47.53	15	53.17	282	5.60	16	77.87	272	9.098	34	54.41	38
29	52.033	38	53.92	163	47.38	32	55.99	258	5.44	23	80.59	240	9.132	5	54.79	33
Juli 9	51.995	72	55.55	142	47.06	49	58.57	228	5.21	30	82.99	203	9.127	43	55.12	26
19	51.923	102	56.97	118	46.57	65	60.85	191	4.91	34	85.02	160	9.084	80	55.38	18
29	51.821	130	58.15	91	45.92	77	62.76	147	4.57	38	86.62	114	9.004	111	55.56	9
Aug. 8	51.691	151	59.06	61	45.15	87	64.23	99	4.19	42	87.76	64	8.893	138	55.65	1
18	51.540	168	59.67	30	44.28	94	65.22	47	3.77	44	88.40	13	8.755	157	55.64	12
28	51.372	176	59.97	1	43.34	97	65.69	7	3.33	45	88.53	39	8.598	168	55.52	22
Sept. 7	51.196	176	59.96	34	42.37	96	65.62	62	2.88	45	88.14	90	8.430	170	55.30	32
17	51.020	166	59.62	67	41.41	89	65.00	114	2.43	43	87.24	141	8.260	161	54.98	41
27	50.854	149	58.95	100	40.52	81	63.86	163	2.00	40	85.83	190	8.099	140	54.57	46
Okt. 7	50.705	122	57.95	133	39.71	67	62.23	206	1.60	35	83.93	236	7.959	110	54.11	50
17	50.583	86	56.62	164	39.04	50	60.17	242	1.25	30	81.57	278	7.849	70	53.61	49
27	50.497	43	54.98	193	38.54	30	57.75	268	0.95	22	78.79	315	7.779	23	53.12	45
Nov. 6	50.454	4	53.05	220	38.24	9	55.07	283	0.73	15	75.64	344	7.756	30	52.67	35
16	50.458	55	50.85	242	38.15	15	52.24	288	0.58	6	72.20	367	7.786	85	52.32	24
26	50.513	106	48.43	259	38.30	38	49.36	281	0.52	4	68.53	379	7.871	141	52.08	8
Dez. 6	50.619	156	45.84	270	38.68	60	46.55	264	0.56	12	64.74	382	8.012	193	52.00	9
16	50.775	201	43.14	272	39.28	81	43.91	237	0.68	22	60.92	372	8.205	240	52.09	27
26	50.976	240	40.42	266	40.09	98	41.54	202	0.90	30	57.20	351	8.445	280	52.36	45
36	51.216		37.76		41.07		39.52		1.20		53.69		8.725		52.81	
Mittl. Ort	49.852		58.92		39.38		36.24		2.33		80.33		6.693		41.60	
sec δ, tg δ	1.060		+0.350		5.123		−5.024		2.107		+1.855		1.115		−0.494	

Tag	618) β Herculis AR.		Dekl.		619) *A* Draconis AR.		Dekl.		621) σ Herculis AR.		Dekl.		622) ζ Ophiuchi AR.		Dekl.	
1930	16h 27m		+21° 38'		16h 28m		+68° 54'		16h 31m		+42° 34'		16h 33m		−10° 25'	
Jan. 1	10.903	254	17.56	269	3.93	41	55.40	334	48.931	267	36.85	322	16.244	266	40.42	132
11	11.157	282	14.87	247	4.34	49	52.06	294	49.198	307	33.63	290	16.510	291	41.74	133
21	11.439	303	12.40	217	4.83	57	49.12	245	49.505	338	30.73	248	16.801	309	43.07	130
31	11.742	316	10.23	180	5.40	62	46.67	186	49.843	359	28.25	198	17.110	318	44.37	122
Feb. 10	12.058	320	8.43	136	6.02	65	44.81	121	50.202	370	26.27	141	17.428	321	45.59	109
20	12.378	317	7.07	89	6.67	67	43.60	54	50.572	370	24.86	80	17.749	318	46.68	92
März 2	12.695	309	6.18	39	7.34	65	43.06	15	50.942	363	24.06	17	18.067	311	47.60	73
12	13.004	295	5.79	10	7.99	62	43.21	82	51.305	348	23.89	45	18.378	298	48.33	53
22	13.299	277	5.89	57	8.61	57	44.03	143	51.653	324	24.34	103	18.676	283	48.86	32
Apr. 1	13.576	255	6.46	100	9.18	51	45.46	198	51.977	296	25.37	156	18.959	266	49.18	11
11	13.831	231	7.46	137	9.69	43	47.44	243	52.273	262	26.93	200	19.225	245	49.29	6
21	14.062	203	8.83	168	10.12	34	49.87	280	52.535	225	28.93	237	19.470	222	49.23	20
Mai 1	14.265	173	10.51	190	10.46	24	52.67	305	52.760	184	31.30	264	19.692	197	49.03	32
11	14.438	142	12.41	205	10.70	14	55.72	319	52.944	140	33.94	280	19.889	169	48.71	41
21	14.580	108	14.46	213	10.84	4	58.91	323	53.084	94	36.74	288	20.058	139	48.30	47
30*)	14.688	72	16.59	212	10.88	6	62.14	316	53.178	48	39.62	286	20.197	106	47.83	49
Juni 9	14.760	36	18.71	206	10.82	16	65.30	300	53.226	2	42.48	275	20.303	72	47.34	49
19	14.796	0	20.77	193	10.66	25	68.30	275	53.228	44	45.23	257	20.375	37	46.85	49
29	14.796	36	22.70	177	10.41	34	71.05	243	53.184	89	47.80	232	20.412	0	46.36	45
Juli 9	14.760	71	24.47	153	10.07	42	73.48	206	53.095	131	50.12	200	20.412	34	45.91	42
19	14.689	103	26.00	128	9.65	48	75.54	162	52.964	169	52.12	164	20.378	68	45.49	38
29	14.586	132	27.28	99	9.17	54	77.16	116	52.795	203	53.76	125	20.310	99	45.11	33
Aug. 8	14.454	154	28.27	68	8.63	58	78.32	66	52.592	229	55.01	82	20.211	123	44.78	28
18	14.300	172	28.95	36	8.05	61	78.98	14	52.363	249	55.83	37	20.088	143	44.50	24
28	14.128	182	29.31	2	7.44	63	79.12	38	52.114	259	56.20	9	19.945	154	44.26	18
Sept. 7	13.946	184	29.33	32	6.81	62	78.74	90	51.855	261	56.11	57	19.791	157	44.08	13
17	13.762	175	29.01	67	6.19	59	77.84	142	51.594	252	55.54	103	19.634	150	43.95	5
27	13.587	158	28.34	102	5.60	56	76.42	190	51.342	232	54.51	148	19.484	133	43.90	4
Okt. 7	13.429	132	27.32	136	5.04	51	74.52	237	51.110	202	53.03	192	19.351	108	43.94	14
17	13.297	97	25.96	168	4.53	43	72.15	279	50.908	162	51.11	233	19.243	72	44.08	26
27	13.200	56	24.28	200	4.10	34	69.36	315	50.746	114	48.78	270	19.171	31	44.34	40
Nov. 6	13.144	7	22.28	227	3.76	24	66.21	346	50.632	59	46.08	301	19.140	17	44.74	56
16	13.137	44	20.01	250	3.52	14	62.75	367	50.573	2	43.07	327	19.157	67	45.30	72
26	13.181	95	17.51	267	3.38	1	59.08	380	50.575	64	39.80	343	19.224	117	46.02	89
Dez. 6	13.276	145	14.84	279	3.37	11	55.28	383	50.639	125	36.37	351	19.341	166	46.91	104
16	13.421	192	12.05	281	3.48	22	51.45	373	50.764	184	32.86	348	19.507	210	47.95	116
26	13.613	232	9.24	274	3.70	34	47.72	351	50.948	238	29.38	334	19.717	247	49.11	126
36	13.845		6.50		4.04		44.21		51.186		26.04		19.964		50.37	
Mittl. Ort	12.589		27.47		6.66		70.66		50.746		49.76		18.125		36.24	
sec δ, tg δ	1.076		+0.397		2.780		+2.594		1.358		+0.919		1.017		−0.184	

*) Bei Stern 621) und 622) lies Mai 31

Tag	626) η Herculis				625) α Triang. austr.				627) Grb 2377				628) ε Scorpii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	16h 40m		+39° 2′		16h 41m		−68° 53′		16h 43m		+56° 53′		16h 45m		−34° 10′	
Jan. 1	27.916	252	63.92	318	9.10	59	62.78	162	55.835	287	68.93	343	35.138	302	4.64	1
11	28.168	291	60.74	289	9.69	68	61.16	124	56.122	347	65.50	308	35.440	333	4.65	19
21	28.459	322	57.85	250	10.37	73	59.92	83	56.469	396	62.42	264	35.773	355	4.84	35
31	28.781	342	55.35	203	11.10	77	59.09	42	56.865	432	59.78	209	36.128	370	5.19	49
Feb. 10	29.123	354	53.32	149	11.87	79	58.67	0	57.297	455	57.69	148	36.498	376	5.68	61
20	29.477	356	51.83	89	12.66	80	58.67	40	57.752	465	56.21	83	36.874	375	6.29	70
März 2	29.833	350	50.94	28	13.46	79	59.07	80	58.217	460	55.38	15	37.249	368	6.99	77
12	30.183	337	50.66	32	14.25	76	59.87	116	58.677	444	55.23	52	37.617	357	7.76	80
22	30.520	318	50.98	90	15.01	72	61.03	149	59.121	416	55.75	114	37.974	342	8.56	83
Apr. 1	30.838	292	51.88	142	15.73	68	62.52	179	59.537	379	56.89	172	38.316	323	9.39	86
11	31.130	262	53.30	187	16.41	62	64.31	205	59.916	333	58.61	220	38.639	301	10.25	87
21	31.392	229	55.17	224	17.03	56	66.36	227	60.249	280	60.81	260	38.940	275	11.12	88
Mai 1	31.621	191	57.41	252	17.59	49	68.63	244	60.529	223	63.41	290	39.215	247	12.00	89
11	31.812	150	59.93	271	18.08	40	71.07	258	60.752	161	66.31	309	39.462	214	12.89	89
21	31.962	108	62.64	280	18.48	31	73.65	265	60.913	97	69.40	318	39.676	179	13.78	90
31	32.070	64	65.44	279	18.79	21	76.30	266	61.010	31	72.58	316	[3] 39.855	140	14.68	88
Juni 9	[2] 32.134	20	68.23	271	[2] 19.00	12	78.96	262	[3] 61.041	34	75.74	306	39.995	98	15.56	85
19	32.154	24	70.94	254	19.12	1	81.58	251	61.007	97	78.80	285	40.093	54	16.41	81
29	32.130	69	73.48	231	19.13	8	84.09	233	60.910	157	81.65	259	40.147	10	17.22	75
Juli 9	32.061	110	75.79	202	19.05	19	86.42	209	60.753	214	84.24	226	40.157	34	17.97	67
19	31.951	147	77.81	169	18.86	27	88.51	179	60.539	265	86.50	186	40.123	76	18.64	55
29	31.804	181	79.50	131	18.59	35	90.30	142	60.274	308	88.36	142	40.047	113	19.19	42
Aug. 8	31.623	209	80.81	90	18.24	42	91.72	101	59.966	344	89.78	96	39.934	146	19.61	27
18	31.414	229	81.71	47	17.82	47	92.73	57	59.622	370	90.74	46	39.788	171	19.88	10
28	31.185	242	82.18	3	17.35	49	93.30	9	59.252	385	91.20	4	39.617	186	19.98	8
Sept. 7	30.943	245	82.21	43	16.86	49	93.39	39	58.867	388	91.16	56	39.431	191	19.90	26
17	30.698	238	81.78	88	16.37	48	93.00	87	58.479	379	90.60	107	39.240	185	19.64	43
27	30.460	221	80.90	133	15.89	43	92.13	131	58.100	356	89.53	156	39.055	167	19.21	58
Okt. 7	30.239	193	79.57	175	15.46	37	90.82	171	57.744	321	87.97	205	38.888	137	18.63	70
17	30.046	156	77.82	216	15.09	28	89.11	205	57.423	273	85.92	249	38.751	97	17.93	78
27	29.890	110	75.66	254	14.81	17	87.06	230	57.150	214	83.43	288	38.654	48	17.15	81
Nov. 6	29.780	58	73.12	285	14.64	5	84.76	246	56.936	146	80.55	323	38.606	6	16.34	79
16	29.722	1	70.27	312	14.59	8	82.30	252	56.790	70	77.32	349	38.612	66	15.55	74
26	29.721	58	67.15	331	14.67	20	79.78	249	56.720	9	73.83	368	38.678	125	14.81	62
Dez. 6	29.779	117	63.84	340	14.87	33	77.29	235	56.729	91	70.15	375	38.803	182	14.19	48
16	29.896	173	60.44	339	15.20	45	74.94	213	56.820	170	66.40	372	38.985	234	13.71	31
26	30.069	224	57.05	329	15.65	55	72.81	185	56.990	244	62.68	356	39.219	280	13.40	13
36	30.293		53.76		16.20		70.96		57.234		59.12		39.499		13.27	
Mittl. Ort	29.737		76.21		14.06		66.65		58.036		82.83		37.478		3.84	
sec δ, tg δ	1.288		+0.811		2.778		−2.592		1.831		+1.534		1.209		−0.679	

Tag	629) 49 Herculis AR.		Dekl.		630) ζ² Scorpii AR.		Dekl.		631) ζ Arae AR.		Dekl.		633) κ Ophiuchi AR.		Dekl.	
1930	16ʰ 48ᵐ		+15° 5′		16ʰ 49ᵐ		−42° 14′		16ʰ 52ᵐ		−55° 52′		16ʰ 54ᵐ		+9° 28′	
Jan. 1	51.812	235	16.39	244	36.450	327	35.38	44	45.807	405	52.50	116	19.425	232	49.06	220
11	52.047	265	13.95	229	36.777	363	34.94	23	46.212	452	51.34	87	19.657	262	46.86	208
21	52.312	288	11.66	206	37.140	390	34.71	0	46.664	490	50.47	56	19.919	283	44.78	189
31	52.600	301	9.60	175	37.530	407	34.71	21	47.154	515	49.91	23	20.202	297	42.89	164
Feb. 10	52.901	310	7.85	138	37.937	414	34.92	40	47.669	528	49.68	7	20.499	305	41.25	132
20	53.211	310	6.47	96	38.351	415	35.32	58	48.197	532	49.75	37	20.804	307	39.93	95
März 2	53.521	305	5.51	53	38.766	410	35.90	72	48.729	527	50.12	66	21.111	302	38.98	56
12	53.826	296	4.98	7	39.176	398	36.62	85	49.256	513	50.78	91	21.413	294	38.42	16
22	54.122	282	4.91	36	39.574	381	37.47	96	49.769	493	51.69	115	21.707	282	38.26	22
Apr. 1	54.404	264	5.27	75	39.955	362	38.43	105	50.262	467	52.84	136	21.989	266	38.48	58
11	54.668	244	6.02	111	40.317	338	39.48	114	50.729	435	54.20	156	22.255	246	39.06	91
21	54.912	221	7.13	140	40.655	309	40.62	121	51.164	397	55.76	171	22.501	225	39.97	117
Mai 1	55.133	194	8.53	163	40.964	276	41.83	126	51.561	352	57.47	185	22.726	200	41.14	139
11	55.327	165	10.16	179	41.240	241	43.09	130	51.913	304	59.32	195	22.926	172	42.53	153
21	55.492	133	11.95	188	41.481	200	44.39	133	52.217	248	61.27	201	23.098	142	44.06	162
31	55.625	100	13.83	191	41.681	157	45.72	133	52.465	189	63.28	204	23.240	108	45.68	165
Juni 9	55.725	64	15.74	187	41.838	109	47.05	130	52.654	126	65.32	201	23.348	74	47.33	162
19	55.789	27	17.61	177	41.947	60	48.35	125	52.780	61	67.33	195	23.422	38	48.95	154
29	55.816	9	19.38	163	42.007	10	49.60	117	52.841	5	69.28	183	23.460	1	50.49	143
Juli 9	55.807	46	21.01	146	42.017	39	50.77	105	52.836	70	71.11	165	23.461	35	51.92	128
19	55.761	79	22.47	124	41.978	87	51.82	90	52.766	132	72.76	142	23.426	69	53.20	110
29	55.682	111	23.71	101	41.891	128	52.72	70	52.634	188	74.18	116	23.357	101	54.30	90
Aug. 8	55.571	137	24.72	75	41.763	165	53.42	48	52.446	234	75.34	84	23.256	128	55.20	69
18	55.434	157	25.47	48	41.598	193	53.90	25	52.212	270	76.18	50	23.128	149	55.89	46
28	55.277	171	25.95	19	41.405	212	54.15	0	51.942	293	76.68	12	22.979	163	56.35	21
Sept. 7	55.106	175	26.14	11	41.193	217	54.15	26	51.649	301	76.80	26	22.816	169	56.56	4
17	54.931	171	26.03	41	40.976	210	53.89	52	51.348	293	76.54	64	22.647	166	56.52	29
27	54.760	158	25.62	71	40.766	192	53.37	74	51.055	268	75.90	99	22.481	153	56.23	55
Okt. 7	54.602	135	24.91	102	40.574	159	52.63	94	50.787	227	74.91	130	22.328	131	55.68	81
17	54.467	103	23.89	132	40.415	115	51.69	109	50.560	171	73.61	157	22.197	101	54.87	108
27	54.364	64	22.57	160	40.300	62	50.60	118	50.389	103	72.04	177	22.096	62	53.79	133
Nov. 6	54.300	19	20.97	186	40.238	1	49.42	123	50.286	24	70.27	189	22.034	17	52.46	157
16	54.281	30	19.11	210	40.237	64	48.19	120	50.262	58	68.38	193	22.017	29	50.89	179
26	54.311	79	17.01	229	40.301	130	46.99	112	50.320	143	66.45	189	22.046	79	49.10	198
Dez. 6	54.390	128	14.72	242	40.431	192	45.87	99	50.463	226	64.56	178	22.125	127	47.12	212
16	54.518	174	12.30	249	40.623	250	44.88	81	50.689	302	62.78	159	22.252	172	45.00	219
26	54.692	214	9.81	247	40.873	305	44.07	60	50.991	370	61.19	135	22.424	212	42.81	221
36	54.906		7.34		41.178		43.47		51.361		59.84		22.636		40.60	
Mittl. Ort	53.579		25.30		39.060		35.46		49.171		53.99		21.222		57.18	
sec δ, tg δ	1.036		+0.270		1.351		−0.908		1.783		−1.476		1.014		+0.167	

Tag	634) ε Herculis AR.		634) ε Herculis Dekl.		637) η Ophiuchi AR.		637) η Ophiuchi Dekl.		639) ζ Draconis AR.		639) ζ Draconis Dekl.		640) α Herculis AR.		640) α Herculis Dekl.	
1930	16h 57m		+31° 1′		17h 6m		−15° 38′		17h 8m		+65° 47′		17h 11m		+14° 27′	
Jan. 1	34.814 s	227	31.30″	301	19.655 s	247	27.95″	88	31.92 s	28	49.48″	355	25.443 s	216	58.80″	239
11	35.041	265	28.29	278	19.902	276	28.83	93	32.20	37	45.93	324	25.659	247	56.41	226
21	35.306	293	25.51	245	20.178	298	29.76	93	32.57	45	42.69	282	25.906	272	54.15	205
31	35.599	313	23.06	204	20.476	313	30.69	90	33.02	51	39.87	231	26.178	291	52.10	176
Feb. 10	35.912	326	21.02	156	20.789	321	31.59	82	33.53	55	37.56	171	26.469	301	50.34	141
20	36.238	331	19.46	102	21.110	324	32.41	71	34.08	58	35.85	106	26.770	306	48.93	100
März 2	36.569	328	18.44	46	21.434	321	33.12	57	34.66	58	34.79	38	27.076	305	47.93	58
12	36.897	319	17.98	10	21.755	315	33.69	43	35.24	57	34.41	30	27.381	300	47.35	13
22	37.216	305	18.08	64	22.070	304	34.12	27	35.81	55	34.71	96	27.681	290	47.22	31
Apr. 1	37.521	285	18.72	115	22.374	291	34.39	13	36.36	51	35.67	156	27.971	276	47.53	71
11	37.806	262	19.87	159	22.665	274	34.52	1	36.87	45	37.23	209	28.247	258	48.24	107
21	38.068	234	21.46	196	22.939	254	34.51	11	37.32	38	39.32	253	28.505	237	49.31	138
Mai 1	38.302	203	23.42	225	23.193	232	34.40	19	37.70	31	41.85	288	28.742	213	50.69	162
11	38.505	169	25.67	245	23.425	205	34.21	25	38.01	22	44.73	312	28.955	185	52.31	179
21	38.674	132	28.12	256	23.630	175	33.96	28	38.23	14	47.85	325	29.140	155	54.10	191
31	38.806	93	30.68	260	23.805	143	33.68	29	38.37	5	51.10	328	29.295	121	56.01	194
Juni 9*)	38.899	52	33.28	254	23.948	107	33.39	29	38.42	4	54.38	323	29.416	85	57.95	192
19	38.951	10	35.82	242	24.055	69	33.10	26	38.38	13	57.61	306	29.501	48	59.87	184
29	38.961	31	38.24	223	24.124	29	32.84	24	38.25	22	60.67	282	29.549	9	61.71	172
Juli 9	38.930	71	40.47	199	24.153	9	32.60	21	38.03	29	63.49	252	29.558	28	63.43	155
19	38.859	109	42.46	170	24.144	47	32.39	18	37.74	36	66.01	215	29.530	65	64.98	134
29	38.750	143	44.16	138	24.097	83	32.21	15	37.38	43	68.16	173	29.465	99	66.32	112
Aug. 8	38.607	171	45.54	102	24.014	113	32.06	14	36.95	47	69.89	127	29.366	128	67.44	86
18	38.436	195	46.56	63	23.901	137	31.92	13	36.48	52	71.16	77	29.238	152	68.30	60
28	38.241	209	47.19	24	23.764	155	31.79	11	35.96	55	71.93	27	29.086	168	68.90	31
Sept. 7	38.032	216	47.43	18	23.609	164	31.68	11	35.41	55	72.20	26	28.918	177	69.21	2
17	37.816	213	47.25	59	23.445	161	31.57	9	34.86	55	71.94	78	28.741	176	69.23	28
27	37.603	199	46.66	100	23.284	150	31.48	6	34.31	53	71.16	130	28.565	167	68.95	57
Okt. 7	37.404	176	45.66	140	23.134	128	31.42	2	33.78	49	69.86	180	28.398	146	68.38	88
17	37.228	144	44.26	179	23.006	97	31.40	4	33.29	43	68.06	227	28.252	118	67.50	117
27	37.084	103	42.47	216	22.909	57	31.44	12	32.86	37	65.79	271	28.134	81	66.33	146
Nov. 6	36.981	56	40.31	247	22.852	11	31.56	22	32.49	29	63.08	309	28.053	39	64.87	174
16	36.925	4	37.84	275	22.841	38	31.78	34	32.20	20	59.99	339	28.014	9	63.13	197
26	36.921	50	35.09	296	22.879	89	32.12	46	32.00	9	56.60	362	28.023	57	61.16	217
Dez. 6	36.971	104	32.13	309	22.968	139	32.58	60	31.91	1	52.98	375	28.080	106	58.99	232
16	37.075	156	29.04	313	23.107	185	33.18	71	31.92	12	49.23	376	28.186	152	56.67	240
26	37.231	203	25.91	306	23.292	226	33.89	81	32.04	22	45.47	365	28.338	194	54.27	240
36	37.434		22.85		23.518		34.70		32.26		41.82		28.532		51.87	
Mittl. Ort	36.645		42.29		21.679		23.18		34.82		62.71		27.278		67.72	
sec δ, tg δ	1.167		+0.602		1.038		−0.280		2.439		+2.225		1.033		+0.258	

*) Bei Stern 640) lies Juni 10

Tag	641) δ Herculis				643) π Herculis				644) ϑ Ophiuchi				645) β Arae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	$17^h\ 12^m$		+24° 54′		$17^h\ 12^m$		+36° 52′		$17^h\ 17^m$		−24° 55′		$17^h\ 19^m$		−55° 27′	
Jan. 1	7.489	213	64.13	281	34.561	214	62.18	319	40.294	252	56.71	30	25.173	365	58.30	139
11	7.702	248	61.32	263	34.775	256	58.99	295	40.546	284	57.01	39	25.538	418	56.91	114
21	7.950	276	58.69	236	35.031	290	56.04	263	40.830	309	57.40	46	25.956	461	55.77	87
31	8.226	296	56.33	200	35.321	316	53.41	220	41.139	327	57.86	51	26.417	492	54.90	58
Feb. 10	8.522	310	54.33	157	35.637	333	51.21	170	41.466	338	58.37	51	26.909	512	54.32	29
20	8.832	316	52.76	108	35.970	342	49.51	113	41.804	342	58.88	51	27.421	523	54.03	0
März 2	9.148	316	51.68	57	36.312	343	48.38	54	42.146	341	59.39	47	27.944	525	54.03	27
12	9.464	311	51.11	5	36.655	337	47.84	6	42.487	337	59.86	42	28.469	519	54.30	53
22	9.775	299	51.06	47	36.992	325	47.90	64	42.824	327	60.28	36	28.988	505	54.83	77
Apr. 1	10.074	285	51.53	95	37.317	307	48.54	118	43.151	315	60.64	31	29.493	485	55.60	101
11	10.359	265	52.48	137	37.624	283	49.72	167	43.466	300	60.95	26	29.978	459	56.61	122
21	10.624	241	53.85	173	37.907	254	51.39	207	43.766	280	61.21	23	30.437	427	57.83	142
Mai 1	10.865	214	55.58	202	38.161	222	53.46	240	44.046	256	61.44	21	30.864	387	59.25	158
11	11.079	183	57.60	222	38.383	185	55.86	263	44.302	230	61.65	21	31.251	341	60.83	172
21	11.262	150	59.82	235	38.568	146	58.49	277	44.532	198	61.86	20	31.592	290	62.55	184
31	11.412	113	62.17	240	38.714	103	61.26	282	44.730	164	62.06	22	31.882	232	64.39	191
Juni 10	11.525	74	64.57	237	38.817	58	64.08	280	44.894	126	62.28	23	32.114	170	66.30	194
19	11.599	35	66.94	227	38.875	13	66.88	267	45.020	85	62.51	25	32.284	104	68.24	192
29	11.634	6	69.21	212	38.888	32	69.55	249	45.105	43	62.76	26	32.388	37	70.16	186
Juli 9	11.628	46	71.33	191	38.856	76	72.04	225	45.148	1	63.02	25	32.425	30	72.02	174
19	11.582	83	73.24	166	38.780	117	74.29	194	45.149	42	63.27	24	32.395	96	73.76	157
29	11.499	118	74.90	137	38.663	155	76.23	160	45.107	80	63.51	21	32.299	156	75.33	133
Aug. 8	11.381	149	76.27	105	38.508	188	77.83	122	45.027	114	63.72	15	32.143	209	76.66	106
18	11.232	174	77.32	71	38.320	213	79.05	81	44.913	143	63.87	9	31.934	252	77.72	75
28	11.058	190	78.03	35	38.107	232	79.86	39	44.770	162	63.96	2	31.682	282	78.47	40
Sept. 7	10.868	198	78.38	1	37.875	240	80.25	6	44.608	173	63.98	7	31.400	298	78.87	2
17	10.670	198	78.37	39	37.635	240	80.19	50	44.435	174	63.91	15	31.102	298	78.89	36
27	10.472	188	77.98	77	37.395	229	79.69	95	44.261	163	63.76	22	30.804	282	78.53	72
Okt. 7	10.284	168	77.21	115	37.166	207	78.74	140	44.098	141	63.54	27	30.522	247	77.81	107
17	10.116	138	76.06	151	36.959	175	77.34	181	43.957	109	63.27	31	30.275	199	76.74	136
27	9.978	101	74.55	185	36.784	135	75.53	221	43.848	69	62.96	31	30.076	137	75.38	160
Nov. 6	9.877	56	72.70	216	36.649	87	73.32	256	43.779	21	62.65	27	29.939	64	73.78	178
16	9.821	8	70.54	244	36.562	34	70.76	286	43.758	30	62.38	22	29.875	16	72.00	188
26	9.813	43	68.10	265	36.528	22	67.90	309	43.788	84	62.16	13	29.891	98	70.12	190
Dez. 6	9.856	95	65.45	281	36.550	79	64.81	325	43.872	137	62.03	3	29.989	181	68.22	185
16	9.951	143	62.64	287	36.629	134	61.56	329	44.009	186	62.00	9	30.170	258	66.37	173
26	10.094	189	59.77	285	36.763	186	58.27	325	44.195	230	62.09	21	30.428	328	64.64	155
36	10.283		56.92		36.949		55.02		44.425		62.30		30.756		63.09	
Mittl. Ort	9.341		74.24		36.500		73.45		42.483		52.57		28.551		57.31	
sec δ, tg δ	1.103		+0.465		1.250		+0.750		1.103		−0.465		1.764		−1.453	

Scheinbare Sternörter 1930

Tag	648) δ Arae AR.		648) δ Arae Dekl.		651) α Arae AR.		651) α Arae Dekl.		653) β Draconis AR.		653) β Draconis Dekl.		652) λ Scorpii AR.		652) λ Scorpii Dekl.	
1930	17h 24m		−60° 37′		17h 26m		−49° 49′		17h 28m		+52° 20′		17h 28m		−37° 3′	
Jan. 1	42.65	39	40.54	168	22.580	321	24.24	116	48.687	204	57.36	352	48.619	270	19.61	47
11	43.04	47	38.86	142	22.901	369	23.08	94	48.891	265	53.84	328	48.889	308	19.14	33
21	43.51	51	37.44	113	23.270	407	22.14	72	49.156	316	50.56	293	49.197	338	18.81	17
31	44.02	55	36.31	81	23.677	435	21.42	47	49.472	357	47.63	246	49.535	361	18.64	4
Feb. 10	44.57	58	35.50	49	24.112	454	20.95	24	49.829	388	45.17	192	49.896	375	18.60	8
20	45.15	60	35.01	16	24.566	464	20.71	1	50.217	408	43.25	131	50.271	382	18.68	19
März 2	45.75	60	34.85	16	25.030	467	20.70	22	50.625	417	41.94	66	50.653	384	18.87	28
12	46.35	59	35.01	46	25.497	462	20.92	42	51.042	415	41.28	1	51.037	382	19.15	36
22	46.94	58	35.47	75	25.959	452	21.34	62	51.457	404	41.29	65	51.419	373	19.51	43
Apr. 1	47.52	56	36.22	104	26.411	437	21.96	80	51.861	381	41.94	127	51.792	361	19.94	51
11	48.08	53	37.26	129	26.848	415	22.76	98	52.242	352	43.21	181	52.153	345	20.45	57
21	48.61	49	38.55	152	27.263	388	23.74	114	52.594	314	45.02	228	52.498	324	21.02	63
Mai 1	49.10	44	40.07	172	27.651	355	24.88	129	52.908	269	47.30	265	52.822	299	21.65	70
11	49.54	39	41.79	190	28.006	317	26.17	141	53.177	220	49.95	294	53.121	269	22.35	77
21	49.93	33	43.69	204	28.323	272	27.58	151	53.397	166	52.89	313	53.390	234	23.12	83
31	50.26	26	45.73	214	28.595	223	29.09	159	53.563	109	56.02	320	53.624	194	23.95	87
Juni 10	50.52	19	47.87	218	28.818	169	30.68	163	53.672	49	59.22	319	53.818	152	24.82	91
19	13 50.71	13	50.05	217	14 28.987	111	32.31	164	14 53.721	12	62.41	309	14 53.970	105	25.73	93
29	50.84	4	52.22	210	29.098	52	33.95	159	53.709	71	65.50	291	54.075	56	26.66	92
Juli 9	50.88	4	54.32	198	29.150	9	35.54	150	53.638	128	68.41	264	54.131	7	27.58	88
19	50.84	11	56.30	180	29.141	68	37.04	138	53.510	182	71.05	232	54.138	41	28.46	81
29	50.73	19	58.10	155	29.073	123	38.42	118	53.328	232	73.37	195	54.097	87	29.27	71
Aug. 8	50.54	24	59.65	125	28.950	170	39.60	96	53.096	273	75.32	153	54.010	127	29.98	58
18	50.30	30	60.90	90	28.780	211	40.56	69	52.823	308	76.85	108	53.883	160	30.56	42
28	50.00	34	61.80	51	28.569	240	41.25	39	52.515	331	77.93	59	53.723	185	30.98	23
Sept. 7	49.66	35	62.31	11	28.329	255	41.64	7	52.184	346	78.52	9	53.538	200	31.21	4
17	49.31	35	62.42	32	28.074	258	41.71	25	51.838	348	78.61	41	53.338	201	31.25	17
27	48.96	34	62.10	74	27.816	245	41.46	58	51.490	338	78.20	92	53.137	192	31.08	37
Okt. 7	48.62	30	61.36	112	27.571	217	40.88	87	51.152	315	77.28	142	52.945	169	30.71	55
17	48.32	24	60.24	146	27.354	175	40.01	113	50.837	280	75.86	191	52.776	135	30.16	70
27	48.08	18	58.78	176	27.179	121	38.88	135	50.557	235	73.95	235	52.641	92	29.46	81
Nov. 6	47.90	9	57.02	197	27.058	58	37.53	150	50.322	179	71.60	276	52.549	39	28.65	89
16	47.81	0	55.05	211	27.000	13	36.03	159	50.143	117	68.84	311	52.510	19	27.76	91
26	47.81	9	52.94	216	27.013	86	34.44	161	50.026	47	65.73	337	52.529	78	26.85	88
Dez. 6	47.90	18	50.78	213	27.099	158	32.83	155	49.979	24	62.36	355	52.607	137	25.97	81
16	48.08	27	48.65	202	27.257	226	31.28	145	50.003	96	58.81	363	52.744	193	25.16	71
26	48.35	36	46.63	184	27.483	289	29.83	130	50.099	164	55.18	358	52.937	244	24.45	58
36	48.71		44.79		27.772		28.53		50.263		51.60		53.181		23.87	
Mittl. Ort	46.49		39.49		25.598		22.12		51.011		69.06		51.113		16.08	
sec δ, tg δ	2.039		−1.777		1.550		−1.184		1.637		+1.296		1.253		−0.755	

Tag	656) α Ophiuchi AR.	Δ	656) α Ophiuchi Dekl.	Δ	654) ϑ Scorpii AR.	Δ	654) ϑ Scorpii Dekl.	Δ	658) ξ Serpentis AR.	Δ	658) ξ Serpentis Dekl.	Δ	664) ω Draconis AR.	Δ	664) ω Draconis Dekl.	Δ
1930	17h 31m		+12° 36′		17h 32m		−42° 57′		17h 33m		−15° 21′		17h 37m		+68° 46′	
Jan. 1	39.160 s	198	25.92″	228	14.419 s	285	22.16″	83	32.540 s	222	27.80″	78	18.06 s	22	74.02″	361
11	39.358	231	23.64	217	14.704	328	21.33	66	32.762	254	28.58	80	18.28	33	70.41	337
21	39.589	258	21.47	199	15.032	361	20.67	48	33.016	279	29.38	80	18.61	43	67.04	302
31	39.847	279	19.48	173	15.393	386	20.19	30	33.295	299	30.18	75	19.04	51	64.02	256
Feb. 10	40.126	293	17.75	141	15.779	403	19.89	12	33.594	310	30.93	67	19.55	58	61.46	200
20	40.419	300	16.34	102	16.182	413	19.77	4	33.904	318	31.60	56	20.13	61	59.46	138
März 2	40.719	303	15.32	61	16.595	416	19.81	20	34.222	320	32.16	42	20.74	64	58.08	71
12	41.022	301	14.71	19	17.011	413	20.01	33	34.542	317	32.58	27	21.38	65	57.37	3
22	41.323	295	14.52	24	17.424	406	20.34	46	34.859	312	32.85	11	22.03	63	57.34	63
Apr. 1	41.618	284	14.76	64	17.830	392	20.80	59	35.171	302	32.96	3	22.66	59	57.97	126
11	41.902	269	15.40	99	18.222	375	21.39	71	35.473	289	32.93	16	23.25	54	59.23	184
21	42.171	251	16.39	130	18.597	353	22.10	83	35.762	272	32.77	26	23.79	48	61.07	233
Mai 1	42.422	229	17.69	155	18.950	325	22.93	94	36.034	252	32.51	34	24.27	39	63.40	274
11	42.651	204	19.24	174	19.275	293	23.87	103	36.286	228	32.17	39	24.66	31	66.14	303
21	42.855	174	20.98	185	19.568	254	24.90	112	36.514	200	31.78	41	24.97	21	69.17	323
31	43.029	141	22.83	190	19.822	212	26.02	119	36.714	168	31.37	40	25.18	10	72.40	333
Juni 10	43.170	106	24.73	189	20.034	165	27.21	124	36.882	132	30.97	38	25.28	1	75.73	333
19	[15] 43.276	68	26.62	183	[15] 20.199	114	28.45	125	[15] 37.014	94	30.59	35	[16] 25.29	10	79.06	324
29	43.344	29	28.45	172	20.313	60	29.70	123	37.108	54	30.24	29	25.19	20	82.30	306
Juli 9	43.373	10	30.17	156	20.373	7	30.93	119	37.162	12	29.95	24	24.99	29	85.36	280
19	43.363	49	31.73	138	20.380	46	32.12	109	37.174	27	29.71	19	24.70	38	88.16	247
29	43.314	84	33.11	116	20.334	96	33.21	96	37.147	66	29.52	15	24.32	46	90.63	210
Aug. 8	43.230	116	34.27	92	20.238	140	34.17	78	37.081	100	29.37	11	23.86	52	92.73	167
18	43.114	143	35.19	66	20.098	177	34.95	58	36.981	129	29.26	8	23.34	58	94.40	120
28	42.971	162	35.85	40	19.921	204	35.53	34	36.852	150	29.18	6	22.76	62	95.60	71
Sept. 7	42.809	174	36.25	13	19.717	220	35.87	9	36.702	163	29.12	4	22.14	64	96.31	19
17	42.635	177	36.38	16	19.497	223	35.96	17	36.539	166	29.08	3	21.50	65	96.50	34
27	42.458	170	36.22	44	19.274	213	35.79	43	36.373	159	29.05	0	20.85	63	96.16	86
Okt. 7	42.288	153	35.78	74	19.061	190	35.36	67	36.214	141	29.05	4	20.22	60	95.30	138
17	42.135	127	35.04	102	18.871	154	34.69	88	36.073	113	29.09	8	19.62	56	93.92	188
27	42.008	93	34.02	129	18.717	106	33.81	105	35.960	78	29.17	14	19.06	49	92.04	236
Nov. 6	41.915	53	32.73	156	18.611	50	32.76	116	35.882	35	29.31	22	18.57	40	89.68	277
16	41.862	7	31.17	181	18.561	11	31.60	122	35.847	13	29.53	32	18.17	31	86.91	314
26	41.855	40	29.36	200	18.572	76	30.38	123	35.860	62	29.85	42	17.86	20	83.77	343
Dez. 6	41.895	88	27.36	216	18.648	140	29.15	118	35.922	112	30.27	53	17.66	8	80.34	362
16	41.983	133	25.20	225	18.788	201	27.97	108	36.034	158	30.80	63	17.58	3	76.72	369
26	42.116	176	22.95	228	18.989	256	26.89	94	36.192	200	31.43	71	17.61	15	73.03	368
36	42.292		20.67		19.245		25.95		36.392		32.14		17.76		69.35	
Mittl. Ort	41.044		34.69		17.120		18.94		34.602		21.79		21.51		85.72	
sec δ, tg δ	1.025		+0.224		1.366		−0.931		1.037		−0.275		2.764		+2.577	

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Tag	663) ι Herculis AR.		663) ι Herculis Dekl.		661) η Pavonis AR.		661) η Pavonis Dekl.		665) β Ophiuchi AR.		665) β Ophiuchi Dekl.		670) ψ Draconis AR.		670) ψ Draconis Dekl.	
1930	17h 37m		+46° 2′		17h 38m		−64° 41′		17h 39m		+4° 35′		17h 43m		+72° 10′	
Jan. 1	27.094	187	22.49	342	47.09	42	35.75	199	58.901	196	34.25	185	6.72	22	49.89	362
11	27.281	240	19.07	321	47.51	49	33.76	174	59.097	228	32.40	179	6.94	35	46.27	340
21	27.521	285	15.86	289	48.00	56	32.02	146	59.325	254	30.61	165	7.29	47	42.87	306
31	27.806	321	12.97	247	48.56	61	30.56	113	59.579	275	28.96	145	7.76	57	39.81	261
Feb. 10	28.127	349	10.50	195	49.17	64	29.43	79	59.854	288	27.51	120	8.33	66	37.20	207
20	28.476	367	8.55	137	49.81	67	28.64	44	60.142	297	26.31	89	8.99	71	35.13	145
März 2	28.843	377	7.18	74	50.48	68	28.20	10	60.439	301	25.42	56	9.70	74	33.68	80
12	29.220	376	6.44	11	51.16	67	28.10	24	60.740	300	24.86	20	10.44	75	32.88	11
22	29.596	368	6.33	53	51.83	67	28.34	58	61.040	295	24.66	15	11.19	73	32.77	55
Apr. 1	29.964	352	6.86	113	52.50	64	28.92	89	61.335	286	24.81	49	11.92	69	33.32	119
11	30.316	328	7.99	167	53.14	61	29.81	119	61.621	274	25.30	78	12.61	64	34.51	176
21	30.644	298	9.66	214	53.75	58	31.00	147	61.895	258	26.08	105	13.25	55	36.27	226
Mai 1	30.942	262	11.80	252	54.33	52	32.47	171	62.153	237	27.13	125	13.80	46	38.53	267
11	31.204	220	14.32	281	54.85	47	34.18	193	62.390	214	28.38	140	14.26	36	41.20	299
21	31.424	174	17.13	301	55.32	40	36.11	211	62.604	186	29.78	150	14.62	24	44.19	319
31	31.598	125	20.14	310	55.72	32	38.22	224	62.790	155	31.28	153	14.86	12	47.38	331
Juni 10	31.723	73	23.24	310	56.04	24	40.46	231	62.945	120	32.81	153	14.98	0	50.69	332
19	31.796	20	26.34	303	56.28	15	42.77	234	63.065	84	34.34	148	14.98	13	54.01	323
29	31.816	33	29.37	286	56.43	6	45.11	230	63.149	44	35.82	138	14.85	24	57.24	307
Juli 9	31.783	86	32.23	262	56.49	3	47.41	219	63.193	5	37.20	125	14.61	35	60.31	282
19	31.697	136	34.85	232	56.46	12	49.60	202	63.198	34	38.45	110	14.26	46	63.13	251
29	31.561	181	37.17	198	56.34	20	51.62	178	63.164	70	39.55	93	13.80	55	65.64	214
Aug. 8	31.380	221	39.15	158	56.14	27	53.40	148	63.094	103	40.48	75	13.25	63	67.78	172
18	31.159	254	40.73	115	55.87	34	54.88	112	62.991	131	41.23	55	12.62	70	69.50	126
28	30.905	278	41.88	69	55.53	38	56.00	72	62.860	152	41.78	35	11.92	74	70.76	77
Sept. 7	30.627	293	42.57	22	55.15	41	56.72	29	62.708	165	42.13	14	11.18	77	71.53	26
17	30.334	297	42.79	27	54.74	42	57.01	17	62.543	169	42.27	7	10.41	78	71.79	27
27	30.037	290	42.52	76	54.32	40	56.84	62	62.374	163	42.20	28	9.63	77	71.52	79
Okt. 7	29.747	270	41.76	126	53.92	36	56.22	105	62.211	148	41.92	51	8.86	73	70.73	131
17	29.477	240	40.50	172	53.56	31	55.17	145	62.063	122	41.41	73	8.13	69	69.42	181
27	29.237	201	38.78	216	53.25	23	53.72	179	61.941	90	40.68	95	7.44	60	67.61	229
Nov. 6	29.036	151	36.62	257	53.02	15	51.93	205	61.851	50	39.73	117	6.84	51	65.32	272
16	28.885	96	34.05	292	52.87	4	49.88	225	61.801	6	38.56	136	6.33	41	62.60	309
26	28.789	34	31.13	320	52.83	6	47.63	234	61.795	40	37.20	155	5.92	28	59.51	338
Dez. 6	28.755	29	27.93	339	52.89	16	45.29	236	61.835	87	35.65	169	5.64	14	56.13	359
16	28.784	92	24.54	349	53.05	27	42.93	229	61.922	133	33.96	179	5.50	0	52.54	369
26	28.876	153	21.05	347	53.32	37	40.64	214	62.055	173	32.17	183	5.50	13	48.85	367
36	29.029		17.58		53.69		38.50		62.228		30.34		5.63		45.18	
Mittl. Ort	29.284		33.53		51.44		33.61		60.817		42.36		10.73		61.25	
sec δ, tg δ	1.441		+1.037		2.339		−2.115		1.003		+0.080		3.268		+3.112	

Tag	667) μ Herculis AR.		Dekl.		671) ξ Draconis AR.		Dekl.	
1930	17h 43m		+27° 45′		17h 52m		+56° 52′	
Jan. 1	41.100	179	27.97	292	16.459	170	48.55	359
11	41.279	219	25.05	277	16.629	241	44.96	341
21	41.498	251	22.28	252	16.870	304	41.55	309
31	41.749	278	19.76	218	17.174	357	38.46	266
Feb. 10	42.027	297	17.58	175	17.531	399	35.80	215
20	42.324	310	15.83	128	17.930	430	33.65	155
März 2	42.634	316	14.55	75	18.360	448	32.10	90
12	42.950	317	13.80	20	18.808	454	31.20	24
22	43.267	312	13.60	34	19.262	448	30.96	43
Apr. 1	43.579	301	13.94	85	19.710	432	31.39	107
11	43.880	286	14.79	131	20.142	402	32.46	165
21	44.166	266	16.10	171	20.544	365	34.11	216
Mai 1	44.432	241	17.81	205	20.909	319	36.27	258
11	44.673	212	19.86	231	21.228	266	38.85	292
21	44.885	178	22.17	247	21.494	206	41.77	315
31	45.063	142	24.64	255	21.700	142	44.92	327
Juni 10	45.205	102	27.19	257	21.842	75	48.19	332
19*)	18 45.307	61	29.76	250	20 21.917	7	51.51	326
29	45.368	17	32.26	237	21.924	61	54.77	311
Juli 9	45.385	26	34.63	218	21.863	127	57.88	289
19	45.359	65	36.81	194	21.736	191	60.77	259
29	45.294	109	38.75	166	21.545	249	63.36	225
Aug. 8	45.185	142	40.41	133	21.296	299	65.61	184
18	45.043	171	41.74	99	20.997	341	67.45	140
28	44.872	193	42.73	62	20.656	374	68.85	93
Sept. 7	44.679	207	43.35	24	20.282	394	69.78	42
17	44.472	212	43.59	16	19.888	402	70.20	9
27	44.260	206	43.43	56	19.486	398	70.11	62
Okt. 7	44.054	191	42.87	96	19.088	379	69.49	113
17	43.863	166	41.91	135	18.709	347	68.36	164
27	43.697	132	40.56	172	18.362	302	66.72	212
Nov. 6	43.565	91	38.84	207	18.060	247	64.60	257
16	43.474	45	36.77	237	17.813	182	62.03	295
26	43.429	5	34.40	263	17.631	110	59.08	327
Dez. 6	43.434	56	31.77	282	17.521	32	55.81	349
16	43.490	106	28.95	292	17.489	46	52.32	362
26	43.596	153	26.03	293	17.535	124	48.70	363
36	43.749		23.10		17.659		45.07	
Mittl. Ort	43.057		37.81		19.086		59.22	
sec δ, tg δ	1.130		+0.526		1.830		+1.533	

Tag	675) 35 Draconis AR.		Dekl.		672) θ Herculis AR.		Dekl.	
1930	17h 52m		+76° 57′		17h 53m		+37° 15′	
Jan. 1	29.47	21	72.94	358	49.026	166	21.70	321
11	29.68	40	69.36	338	49.192	212	18.49	305
21	30.08	56	65.98	307	49.404	251	15.44	278
31	30.64	71	62.91	265	49.655	284	12.66	241
Feb. 10	31.35	83	60.26	213	49.939	309	10.25	195
20	32.18	92	58.13	153	50.248	326	8.30	142
März 2	33.10	97	56.60	88	50.574	337	6.88	84
12	34.07	99	55.72	22	50.911	340	6.04	25
22	35.06	97	55.50	45	51.251	337	5.79	35
Apr. 1	36.03	93	55.95	108	51.588	327	6.14	92
11	36.96	85	57.03	166	51.915	310	7.06	144
21	37.81	74	58.69	217	52.225	288	8.50	190
Mai 1	38.55	62	60.86	259	52.513	260	10.40	229
11	39.17	48	63.45	292	52.773	228	12.69	257
21	39.65	32	66.37	316	53.001	190	15.26	279
31	39.97	16	69.53	328	53.191	148	18.05	290
Juni 10	40.13	1	72.81	331	53.339	104	20.95	293
19*)	20 40.12	18	76.12	325	21 53.443	57	23.88	288
29	39.94	34	79.37	311	53.500	10	26.76	274
Juli 9	39.60	50	82.48	288	53.510	38	29.50	255
19	39.10	64	85.36	259	53.472	85	32.05	229
29	38.46	76	87.95	224	53.387	129	34.34	198
Aug. 8	37.70	87	90.19	183	53.258	166	36.32	163
18	36.83	96	92.02	139	53.092	199	37.95	124
28	35.87	102	93.41	92	52.893	224	39.19	83
Sept. 7	34.85	107	94.33	42	52.669	241	40.02	39
17	33.78	109	94.75	10	52.428	248	40.41	5
27	32.69	108	94.65	62	52.180	244	40.36	51
Okt. 7	31.61	104	94.03	114	51.936	229	39.85	97
17	30.57	97	92.89	165	51.707	204	38.88	141
27	29.60	89	91.24	212	51.503	171	37.47	184
Nov. 6	28.71	76	89.12	256	51.332	128	35.63	223
16	27.95	62	86.56	295	51.204	79	33.40	258
26	27.33	46	83.61	325	51.125	27	30.82	287
Dez. 6	26.87	28	80.36	349	51.098	28	27.95	308
16	26.59	10	76.87	361	51.126	84	24.87	320
26	26.49	10	73.26	360	51.210	136	21.67	322
36	26.59		69.66		51.346		18.45	
Mittl. Ort	34.79		83.67		51.110		31.74	
sec δ, tg δ	4.436		+4.322		1.256		+0.761	

*) Bei Stern 671), 675) und 672) lies Juni 20

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Tag	676) γ Draconis				673) ν Ophiuchi				677) 67 Ophiuchi				679) γ Sagittarii			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1930	17h 54m		+51° 29′		17h 55m		−9° 45′		17h 57m		+2° 55′		18h 1m		−30° 25′	
Jan. 1	56.388	164	36.72	352	8.295	195	66.61	100	6.371	181	52.50	171	16.268	219	42.32	27
11	56.552	225	33.20	335	8.490	229	67.61	100	6.552	214	50.79	167	16.487	258	42.05	20
21	56.777	279	29.85	305	8.719	255	68.61	96	6.766	243	49.12	155	16.745	290	41.85	12
31	57.056	324	26.80	264	8.974	277	69.57	87	7.009	265	47.57	136	17.035	314	41.73	7
Feb. 10	57.380	361	24.16	214	9.251	293	70.44	73	7.274	281	46.21	113	17.349	333	41.66	2
20	57.741	387	22.02	155	9.544	303	71.17	56	7.555	292	45.08	85	17.682	345	41.64	1
März 2	58.128	403	20.47	92	9.847	308	71.73	36	7.847	298	44.23	52	18.027	353	41.65	3
12	58.531	409	19.55	27	10.155	309	72.09	16	8.145	300	43.71	19	18.380	355	41.68	4
22	58.940	404	19.28	39	10.464	307	72.25	5	8.445	298	43.52	15	18.735	353	41.72	4
Apr. 1	59.344	390	19.67	101	10.771	301	72.20	25	8.743	292	43.67	47	19.088	348	41.76	5
11	59.734	367	20.68	159	11.072	292	71.95	42	9.035	282	44.14	75	19.436	338	41.81	8
21	60.101	336	22.27	209	11.364	278	71.53	58	9.317	268	44.89	101	19.774	323	41.89	11
Mai 1	60.437	297	24.36	251	11.642	260	70.95	69	9.585	250	45.90	122	20.097	304	42.00	15
11	60.734	252	26.87	285	11.902	238	70.26	77	9.835	228	47.12	136	20.401	280	42.15	20
21	60.986	202	29.72	308	12.140	212	69.49	80	10.063	202	48.48	146	20.681	251	42.35	27
31	61.188	146	32.80	321	12.352	181	68.69	81	10.265	171	49.94	150	20.932	216	42.62	34
Juni 10	61.334	88	36.01	324	12.533	147	67.88	78	10.436	138	51.44	149	21.148	177	42.96	41
20	61.422	28	39.25	320	12.680	109	67.10	72	10.574	100	52.93	144	21.325	135	43.37	48
29	[21] 61.450	32	42.45	306	[21] 12.789	70	66.38	66	[21] 10.674	60	54.37	134	[22] 21.460	89	43.85	52
Juli 9	61.418	91	45.51	284	12.859	28	65.72	57	10.734	21	55.71	123	21.549	41	44.37	55
19	61.327	148	48.35	257	12.887	13	65.15	47	10.755	19	56.94	109	21.590	6	44.92	55
29	61.179	201	50.92	222	12.874	52	64.68	39	10.736	58	58.03	92	21.584	52	45.47	54
Aug. 8	60.978	246	53.14	183	12.822	87	64.29	30	10.678	93	58.95	75	21.532	94	46.01	49
18	60.732	286	54.97	140	12.735	118	63.99	21	10.585	122	59.70	56	21.438	130	46.50	41
28	60.446	316	56.37	94	12.617	143	63.78	12	10.463	146	60.26	37	21.308	159	46.91	32
Sept. 7	60.130	334	57.31	45	12.474	158	63.66	5	10.317	161	60.63	18	21.149	178	47.23	19
17	59.796	343	57.76	5	12.316	165	63.61	2	10.156	168	60.81	3	20.971	186	47.42	6
27	59.453	340	57.71	56	12.151	161	63.63	11	9.988	165	60.78	23	20.785	184	47.48	7
Okt. 7	59.113	322	57.15	107	11.990	148	63.74	18	9.823	152	60.55	42	20.601	169	47.41	21
17	58.791	294	56.08	158	11.842	124	63.92	28	9.671	130	60.13	63	20.432	143	47.20	32
27	58.497	255	54.50	204	11.718	92	64.20	37	9.541	99	59.50	84	20.289	107	46.88	42
Nov. 6	58.242	204	52.46	248	11.626	52	64.57	48	9.442	61	58.66	104	20.182	63	46.46	48
16	58.038	146	49.98	287	11.574	9	65.05	59	9.381	19	57.62	123	20.119	13	45.98	51
26	57.892	82	47.11	318	11.565	38	65.64	71	9.362	26	56.39	140	20.106	41	45.47	50
Dez. 6	57.810	14	43.93	341	11.603	86	66.35	81	9.388	73	54.99	154	20.147	94	44.97	47
16	57.796	56	40.52	354	11.689	132	67.16	90	9.461	117	53.45	164	20.241	146	44.50	42
26	57.852	124	36.98	355	11.821	173	68.06	96	9.578	159	51.81	169	20.387	194	44.08	35
36	57.976		33.43		11.994		69.02		9.737		50.12		20.581		43.73	
Mittl. Ort	58.805		47.15		10.318		59.28		8.317		60.72		18.601		36.07	
sec δ, tg δ	1.606		+1.257		1.015		−0.172		1.001		+0.051		1.160		−0.587	

Tag	680) 72 Ophiuchi				681) ο Herculis				682) μ Sagittarii				688) η Serpentis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	18h 3m		+9° 32′		18h 4m		+28° 44′		18h 9m		−21° 4′		18h 17m		−2° 55′	
Jan. 1	59.886	170	60.61	204	46.676	157	56.58	291	32.426	196	50.88	25	39.240	166	14.61	133
11	60.056	204	58.57	198	46.833	198	53.67	279	32.622	231	51.13	29	39.406	201	15.94	131
21	60.260	234	56.59	182	47.031	234	50.88	256	32.853	262	51.42	30	39.607	229	17.25	123
31	60.494	257	54.77	161	47.265	263	48.32	225	33.115	285	51.72	29	39.836	254	18.48	109
Feb. 10	60.751	275	53.16	133	47.528	286	46.07	184	33.400	304	52.01	25	40.090	272	19.57	90
20	61.026	288	51.83	98	47.814	303	44.23	136	33.704	316	52.26	18	40.362	285	20.47	67
März 2	61.314	296	50.85	61	48.117	313	42.87	85	34.020	324	52.44	10	40.647	295	21.14	41
12	61.610	299	50.24	21	48.430	318	42.02	29	34.344	328	52.54	2	40.942	300	21.55	13
22	61.909	298	50.03	19	48.748	317	41.73	25	34.672	328	52.56	8	41.242	301	21.68	15
Apr. 1	62.207	293	50.22	56	49.065	310	41.98	77	35.000	324	52.48	16	41.543	298	21.53	41
11	62.500	283	50.78	92	49.375	299	42.75	126	35.324	316	52.32	23	41.841	292	21.12	65
21	62.783	270	51.70	122	49.674	281	44.01	169	35.640	304	52.09	28	42.133	282	20.47	87
Mai 1	63.053	252	52.92	147	49.955	259	45.70	205	35.944	287	51.81	31	42.415	266	19.60	103
11	63.305	230	54.39	166	50.214	231	47.75	233	36.231	266	51.50	30	42.681	246	18.57	114
21	63.535	204	56.05	178	50.445	199	50.08	253	36.497	240	51.20	27	42.927	222	17.43	122
31	63.739	172	57.83	185	50.644	164	52.61	264	36.737	208	50.93	24	43.149	193	16.21	124
Juni 10	63.911	138	59.68	185	50.808	123	55.25	268	36.945	173	50.69	18	43.342	160	14.97	123
20	64.049	100	61.53	180	50.931	81	57.93	263	37.118	133	50.51	11	43.502	123	13.74	117
29	[23] 64.149	60	63.33	171	[23] 51.012	37	60.56	253	[24] 37.251	91	50.40	5	[27] 43.625	83	12.57	108
Juli 9	64.209	20	65.04	157	51.049	8	63.09	236	37.342	47	50.35	2	43.708	42	11.49	98
19	64.229	21	66.61	141	51.041	52	65.45	213	37.389	2	50.37	9	43.750	0	10.51	85
29	64.208	60	68.02	121	50.989	93	67.58	186	37.391	41	50.46	12	43.750	40	9.66	71
Aug. 8	64.148	95	69.23	99	50.896	131	69.44	155	37.350	80	50.58	13	43.710	77	8.95	56
18	64.053	126	70.22	76	50.765	163	70.99	120	37.270	115	50.71	14	43.633	110	8.39	42
28	63.927	150	70.98	52	50.602	189	72.19	83	37.155	143	50.85	14	43.523	137	7.97	27
Sept. 7	63.777	167	71.50	27	50.413	206	73.02	45	37.012	162	50.99	11	43.386	155	7.70	13
17	63.610	174	71.77	1	50.207	215	73.47	5	36.850	171	51.10	7	43.231	165	7.57	2
27	63.436	172	71.78	25	49.992	213	73.52	35	36.679	171	51.17	3	43.066	165	7.59	17
Okt. 7	63.264	161	71.53	51	49.779	201	73.17	77	36.508	158	51.20	0	42.901	155	7.76	31
17	63.103	140	71.02	77	49.578	179	72.40	116	36.350	135	51.20	3	42.746	136	8.07	46
27	62.963	110	70.25	103	49.399	148	71.24	156	36.215	103	51.17	5	42.610	108	8.53	60
Nov. 6	62.853	73	69.22	128	49.251	110	69.68	192	36.112	64	51.12	4	42.502	72	9.13	76
16	62.780	32	67.94	151	49.141	66	67.76	224	36.048	18	51.08	2	42.430	32	9.89	91
26	62.748	14	66.43	171	49.075	18	65.52	252	36.030	30	51.06	3	42.398	12	10.80	104
Dez. 6	62.762	59	64.72	186	49.057	32	63.00	274	36.060	80	51.09	8	42.410	58	11.84	117
16	62.821	104	62.86	198	49.089	83	60.26	287	36.140	128	51.17	14	42.468	102	13.01	125
26	62.925	147	60.88	203	49.172	130	57.39	290	36.268	172	51.31	20	42.570	144	14.26	129
36	63.072		58.85		49.302		54.49		36.440		51.51		42.714		15.55	
Mittl. Ort	61.826		69.24		48.689		65.98		34.588		43.64		41.228		6.32	
sec δ, tg δ	1.014		+0.168		1.141		+0.549		1.072		−0.385		1.001		−0.051	

Tag	689) ε Sagittarii AR.		Dekl.		690) 109 Herculis AR.		Dekl.		691) α Telescopii AR.		Dekl.		695) χ Draconis AR.		Dekl.	
1930	18h 19m		−34° 25′		18h 20m		+21° 43′		18h 21m		−46° 0′		18h 22m		+72° 41′	
Jan. 1	29.116	207	16.96	61	40.886	145	62.72	260	44.187	233	38.41	132	14.76	10	61.69	364
11	29.323	249	16.35	55	41.031	184	60.12	251	44.420	283	37.09	121	14.86	24	58.05	353
21	29.572	285	15.80	47	41.215	217	57.61	234	44.703	326	35.88	109	15.10	37	54.52	328
31	29.857	313	15.33	40	41.432	246	55.27	206	45.029	361	34.79	94	15.47	49	51.24	293
Feb. 10	30.170	334	14.93	33	41.678	269	53.21	171	45.390	388	33.85	79	15.96	59	48.31	245
20	30.504	351	14.60	28	41.947	286	51.50	129	45.778	409	33.06	63	16.55	67	45.86	190
März 2	30.855	362	14.32	23	42.233	299	50.21	83	46.187	423	32.43	47	17.22	73	43.96	128
12	31.217	368	14.09	17	42.532	305	49.38	34	46.610	431	31.96	30	17.95	76	42.68	61
22	31.585	370	13.92	13	42.837	307	49.04	16	47.041	433	31.66	13	18.71	77	42.07	5
Apr. 1	31.955	367	13.79	7	43.144	305	49.20	65	47.474	430	31.53	4	19.48	74	42.12	71
11	32.322	359	13.72	0	43.449	296	49.85	109	47.904	420	31.57	21	20.22	71	42.83	133
21	32.681	347	13.72	7	43.745	283	50.94	149	48.324	406	31.78	39	20.93	65	44.16	189
Mai 1	33.028	330	13.79	15	44.028	265	52.43	182	48.730	385	32.17	57	21.58	56	46.05	236
11	33.358	306	13.94	25	44.293	242	54.25	209	49.115	357	32.74	73	22.14	47	48.41	276
21	33.664	278	14.19	35	44.535	214	56.34	228	49.472	323	33.47	90	22.61	35	51.17	307
31	33.942	243	14.54	46	44.749	182	58.62	240	49.795	281	34.37	106	22.96	24	54.24	326
Juni 10	34.185	203	15.00	55	44.931	144	61.02	244	50.076	234	35.43	119	23.20	12	57.50	337
20	34.388	159	15.55	65	45.075	105	63.46	241	50.310	181	36.62	128	23.32	1	60.87	338
29	34.547	111	16.20	71	45.180	63	65.87	232	50.491	124	37.90	136	23.31	14	64.25	329
Juli 9	34.658	61	16.91	76	45.243	19	68.19	217	50.615	66	39.26	138	23.17	26	67.54	314
19	34.719	10	17.67	78	45.262	24	70.36	197	50.681	6	40.64	136	22.91	38	70.68	290
29	34.729	39	18.45	76	45.238	65	72.33	173	50.687	53	42.00	129	22.53	48	73.58	260
Aug. 8	34.690	85	19.21	70	45.173	104	74.06	146	50.634	106	43.29	117	22.05	58	76.18	223
18	34.605	125	19.91	62	45.069	137	75.52	116	50.528	154	44.46	101	21.47	66	78.41	183
28	34.480	158	20.53	50	44.932	164	76.68	84	50.374	193	45.47	79	20.81	72	80.24	137
Sept. 7	34.322	182	21.03	35	44.768	183	77.52	50	50.181	221	46.26	54	20.09	77	81.61	88
17	34.140	195	21.38	19	44.585	194	78.02	15	49.960	237	46.80	26	19.32	80	82.49	37
27	33.945	195	21.57	1	44.391	194	78.17	21	49.723	238	47.06	3	18.52	81	82.86	15
Okt. 7	33.750	183	21.58	17	44.197	186	77.96	57	49.485	225	47.03	32	17.71	79	82.71	69
17	33.567	160	21.41	34	44.011	167	77.39	93	49.260	199	46.71	61	16.92	75	82.02	122
27	33.407	126	21.07	48	43.844	139	76.46	127	49.061	159	46.10	87	16.17	70	80.80	174
Nov. 6	33.281	83	20.59	60	43.705	104	75.19	161	48.902	110	45.23	107	15.47	61	79.06	222
16	33.198	33	19.99	69	43.601	64	73.58	191	48.792	52	44.16	125	14.86	52	76.84	266
26	33.165	21	19.30	73	43.537	19	71.67	217	48.740	12	42.91	136	14.34	40	74.18	304
Dez. 6	33.186	76	18.57	75	43.518	28	69.50	238	48.752	76	41.55	142	13.94	27	71.14	334
16	33.262	130	17.82	72	43.546	75	67.12	252	48.828	140	40.13	143	13.67	13	67.80	353
26	33.392	180	17.10	68	43.621	120	64.60	258	48.968	200	38.70	139	13.54	1	64.27	362
36	33.572		16.42		43.741		62.02		49.168		37.31		13.55		60.65	
Mittl. Ort	31.536		9.75		42.875		71.61		46.993		31.47		19.23		70.44	
sec δ, tg δ	1.212		−0.685		1.077		+0.399		1.440		−1.036		3.363		+3.211	

Tag	694) *b* Draconis AR.		Dekl.		699) *α* Lyrae AR.		Dekl.		698) *ζ* Pavonis AR.		Dekl.		703) 110 Herculis AR.		Dekl.	
1930	$18^h\ 22^m$		+58° 45′		$18^h\ 34^m$		+38° 42′		$18^h\ 34^m$		−71° 29′		$18^h\ 42^m$		+20° 28′	
Jan. 1	50.446	114	25.90	360	31.887	116	54.58	319	46.34	37	35.59	266	36.911	123	32.60	248
11	50.560	192	22.30	349	32.003	165	51.39	311	46.71	49	32.93	253	37.034	162	30.12	244
21	50.752	262	18.81	325	32.168	209	48.28	290	47.20	59	30.40	232	37.196	196	27.68	227
31	51.014	325	15.56	288	32.377	248	45.38	259	47.79	68	28.08	206	37.392	227	25.41	203
Feb. 10	51.339	378	12.68	241	32.625	280	42.79	218	48.47	76	26.02	175	37.619	252	23.38	172
20	51.717	420	10.27	186	32.905	307	40.61	170	49.23	81	24.27	141	37.871	273	21.66	132
März 2	52.137	450	8.41	123	33.212	326	38.91	114	50.04	85	22.86	106	38.144	288	20.34	87
12	52.587	466	7.18	58	33.538	338	37.77	55	50.89	88	21.80	68	38.432	299	19.47	40
22	53.053	471	6.60	9	33.876	344	37.22	5	51.77	89	21.12	29	38.731	304	19.07	8
April 1	53.524	463	6.69	75	34.220	342	37.27	64	52.66	88	20.83	10	39.035	306	19.15	56
11	53.987	442	7.44	136	34.562	333	37.91	120	53.54	86	20.93	48	39.341	301	19.71	101
21	54.429	410	8.80	191	34.895	318	39.11	171	54.40	83	21.41	85	39.642	292	20.72	141
Mai 1	54.839	368	10.71	240	35.213	297	40.82	214	55.23	78	22.26	121	39.934	277	22.13	175
11	55.207	318	13.11	278	35.510	268	42.96	250	56.01	72	23.47	154	40.211	257	23.88	203
21	55.525	258	15.89	307	35.778	233	45.46	276	56.73	64	25.01	184	40.468	232	25.91	223
31	55.783	194	18.96	327	36.011	194	48.22	295	57.37	55	26.85	210	40.700	201	28.14	237
Juni 10	55.977	124	22.23	338	36.205	150	51.17	305	57.92	45	28.95	231	40.901	166	30.51	243
20	56.101	52	25.61	338	36.355	102	54.22	306	58.37	33	31.26	246	41.067	127	32.94	242
29*)	28 56.153	22	28.99	329	36.457	52	57.28	298	58.70	21	33.72	254	41.194	85	35.36	234
Juli 9	56.131	94	32.28	313	1 36.509	2	60.26	284	1 58.91	9	36.26	255	3 41.279	41	37.70	221
19	56.037	164	35.41	289	36.511	48	63.10	263	59.00	4	38.81	248	41.320	3	39.91	204
29	55.873	230	38.30	259	36.463	97	65.73	236	58.96	17	41.29	234	41.317	46	41.95	181
Aug. 8	55.643	289	40.89	222	36.366	141	68.09	204	58.79	28	43.63	211	41.271	86	43.76	155
18	55.354	340	43.11	181	36.225	180	70.13	168	58.51	38	45.74	181	41.185	122	45.31	127
28	55.014	380	44.92	135	36.045	213	71.81	128	58.13	46	47.55	143	41.063	151	46.58	96
Sept. 7	54.634	409	46.27	87	35.832	236	73.09	86	57.67	53	48.98	100	40.912	174	47.54	63
17	54.225	427	47.14	36	35.596	250	73.95	41	57.14	57	49.98	53	40.738	187	48.17	30
27	53.798	429	47.50	17	35.346	254	74.36	5	56.57	58	50.51	2	40.551	192	48.47	5
Okt. 7	53.369	419	47.33	70	35.092	247	74.31	51	55.99	57	50.53	50	40.359	187	48.42	40
17	52.950	395	46.63	122	34.845	230	73.80	99	55.42	52	50.03	100	40.172	171	48.02	75
27	52.555	355	45.41	174	34.615	202	72.81	143	54.90	45	49.03	146	40.001	148	47.27	110
Nov. 6	52.200	305	43.67	222	34.413	167	71.38	187	54.45	35	47.57	188	39.853	116	46.17	143
16	51.895	244	41.45	265	34.246	123	69.51	227	54.10	24	45.69	222	39.737	78	44.74	173
26	51.651	174	38.80	303	34.123	74	67.24	260	53.86	11	43.47	249	39.659	36	43.01	200
Dez. 6	51.477	97	35.77	332	34.049	22	64.64	288	53.75	2	40.98	266	39.623	9	41.01	222
16	51.380	17	32.45	351	34.027	32	61.76	307	53.77	16	38.32	274	39.632	54	38.79	237
26	51.363	65	28.94	358	34.059	85	58.69	316	53.93	29	35.58	274	39.686	98	36.42	245
36	51.428		25.36		34.144		55.53		54.22		32.84		39.784		33.97	
Mittl. Ort	53.316		34.81		34.090		63.07		51.84		28.24		38.914		41.09	
sec δ, tg δ	1.928		+1.649		1.282		+0.802		3.150		−2.987		1.067		+0.373	

*) Bei Stern 699), 698) und 703) lies Juni 30

Scheinbare Sternörter 1930

Tag	704) λ Pavonis AR.		704) λ Pavonis Dekl.		705) β Lyrae AR.		705) β Lyrae Dekl.		707) ο Draconis AR.		707) ο Draconis Dekl.		706) σ Sagittarii AR.		706) σ Sagittarii Dekl.	
1930	18h 45m		−62° 16′		18h 47m		+33° 16′		18h 50m		+59° 17′		18h 50m		−26° 23′	
Jan. 1	40.24 s	26	21.03 ″	230	27.583 s	105	41.49 ″	299	7.186 s	62	61.27 ″	356	53.301 s	160	16.45 ″	26
11	40.50	34	18.73	221	27.688	151	38.50	293	7.248	141	57.71	351	53.461	200	16.19	25
21	40.84	41	16.52	206	27.839	192	35.57	275	7.389	217	54.20	334	53.661	234	15.94	24
31	41.25	47	14.46	187	28.031	228	32.82	248	7.606	285	50.86	304	53.895	263	15.70	25
Feb. 10	41.72	52	12.59	163	28.259	259	30.34	211	7.891	346	47.82	262	54.158	288	15.45	26
20	42.24	56	10.96	137	28.518	285	28.23	166	8.237	395	45.20	210	54.446	306	15.19	30
März 2	42.80	59	9.59	108	28.803	305	26.57	114	8.632	435	43.10	152	54.752	322	14.89	33
12	43.39	61	8.51	78	29.108	319	25.43	59	9.067	461	41.58	88	55.074	332	14.56	38
22	44.00	62	7.73	48	29.427	326	24.84	2	9.528	474	40.70	22	55.406	340	14.18	41
Apr. 1	44.62	62	7.25	15	29.753	327	24.82	54	10.002	476	40.48	44	55.746	342	13.77	44
11	45.24	62	7.10	17	30.080	323	25.36	108	10.478	464	40.92	108	56.088	341	13.33	45
21	45.86	59	7.27	49	30.403	312	26.44	157	10.942	439	42.00	166	56.429	334	12.88	44
Mai 1	46.45	57	7.76	81	30.715	294	28.01	199	11.381	404	43.66	218	56.763	324	12.44	41
11	47.02	53	8.57	110	31.009	270	30.00	234	11.785	358	45.84	261	57.087	306	12.03	34
21	47.55	48	9.67	138	31.279	241	32.34	261	12.143	304	48.45	297	57.393	283	11.69	27
31	48.03	42	11.05	163	31.520	205	34.95	280	12.447	240	51.42	321	57.676	254	11.42	17
Juni 10	48.45	36	12.68	184	31.725	166	37.75	289	12.687	172	54.63	338	57.930	220	11.25	7
20	48.81	28	14.52	201	31.891	121	40.64	292	12.859	100	58.01	343	58.150	180	11.18	5
30	49.09	19	16.53	212	32.012	75	43.56	286	12.959	25	61.44	341	58.330	136	11.23	15
Juli 9	4 49.28	10	18.65	216	4 32.087	27	46.42	273	5 12.984	51	64.85	330	5 58.466	90	11.38	26
19	49.38	2	20.81	215	32.114	22	49.15	254	12.933	125	68.15	311	58.556	41	11.64	35
29	49.40	7	22.96	205	32.092	69	51.69	230	12.808	195	71.26	286	58.597	6	11.99	40
Aug. 8	49.33	15	25.01	189	32.023	112	53.99	200	12.613	259	74.12	252	58.591	52	12.39	43
18	49.18	22	26.90	167	31.911	151	55.99	167	12.354	316	76.64	215	58.539	93	12.82	44
28	48.96	29	28.57	136	31.760	183	57.66	130	12.038	364	78.79	172	58.446	128	13.26	42
Sept. 7	48.67	34	29.93	99	31.577	208	58.96	90	11.674	400	80.51	126	58.318	154	13.68	36
17	48.33	36	30.92	61	31.369	224	59.86	49	11.274	424	81.77	76	58.164	172	14.04	29
27	47.97	38	31.53	17	31.145	230	60.35	6	10.850	435	82.53	24	57.992	179	14.33	20
Okt. 7	47.59	37	31.70	27	30.915	225	60.41	38	10.415	432	82.77	29	57.813	173	14.53	10
17	47.22	34	31.43	72	30.690	210	60.03	82	9.983	415	82.48	83	57.640	157	14.63	0
27	46.88	30	30.71	113	30.480	187	59.21	124	9.568	385	81.65	136	57.483	131	14.63	10
Nov. 6	46.58	23	29.58	151	30.293	154	57.97	166	9.183	340	80.29	188	57.352	96	14.53	17
16	46.35	15	28.07	182	30.139	114	56.31	204	8.843	284	78.41	234	57.256	55	14.36	24
26	46.20	7	26.25	207	30.025	70	54.27	237	8.559	219	76.07	276	57.201	8	14.12	27
Dez. 6	46.13	2	24.18	224	29.955	22	51.90	264	8.340	146	73.31	311	57.193	40	13.85	29
16	46.15	12	21.94	234	29.933	29	49.26	284	8.194	68	70.20	337	57.233	89	13.56	30
26	46.27	21	19.60	235	29.962	77	46.42	295	8.126	12	66.83	350	57.322	134	13.26	29
36	46.48		17.25		30.039		43.47		8.138		63.33		57.456		12.97	
Mittl. Ort	44.12		12.47		29.715		49.56		10.187		68.44		55.518		7.28	
sec δ, tg δ	2.149		−1.902		1.196		+0.656		1.959		+1.684		1.116		−0.496	

Tag	709) ϑ Serpent. pr. AR.		Dekl.		708) λ Telescopii AR.		Dekl.		711) *R* Lyrae AR.		Dekl.		713) γ Lyrae AR.		Dekl.	
1930	18h 52m		+4° 6′		18h 52m		−53° 1′		18h 53m		+43° 50′		18h 56m		+32° 35′	
Jan. 1	42.403	127	31.25	160	48.852	208	64.14	186	9.979	85	63.14	329	17.341	96	25.17	294
11	42.530	163	29.65	156	49.060	270	62.28	180	10.064	140	59.85	324	17.437	141	22.23	289
21	42.693	195	28.09	147	49.330	323	60.48	170	10.204	190	56.61	307	17.578	182	19.34	274
31	42.888	222	26.62	130	49.653	370	58.78	156	10.394	235	53.54	279	17.760	219	16.60	247
Feb. 10	43.110	246	25.32	108	50.023	408	57.22	140	10.629	275	50.75	239	17.979	251	14.13	212
20	43.356	264	24.24	80	50.431	439	55.82	121	10.904	307	48.36	191	18.230	277	12.01	168
März 2	43.620	279	23.44	48	50.870	462	54.61	101	11.211	332	46.45	136	18.507	299	10.33	118
12	43.899	290	22.96	15	51.332	480	53.60	78	11.543	351	45.09	76	18.806	314	9.15	63
22	44.189	297	22.81	20	51.812	489	52.82	56	11.894	361	44.33	14	19.120	323	8.52	7
Apr. 1	44.486	300	23.01	54	52.301	493	52.26	32	12.255	364	44.19	48	19.443	326	8.45	49
11	44.786	298	23.55	85	52.794	489	51.94	8	12.619	358	44.67	107	19.769	324	8.94	103
21	45.084	292	24.40	113	53.283	478	51.86	18	12.977	344	45.74	161	20.093	314	9.97	151
Mai 1	45.376	282	25.53	135	53.761	460	52.04	44	13.321	323	47.35	209	20.407	299	11.48	194
11	45.658	265	26.88	153	54.221	433	52.48	69	13.644	295	49.44	249	20.706	276	13.42	230
21	45.923	244	28.41	165	54.654	398	53.17	92	13.939	259	51.93	280	20.982	247	15.72	257
31	46.167	217	30.06	171	55.052	353	54.09	116	14.198	217	54.73	303	21.229	214	18.29	277
Juni 10	46.384	185	31.77	172	55.405	302	55.25	136	14.415	171	57.76	317	21.443	175	21.06	288
20	46.569	150	33.49	168	55.707	244	56.61	152	14.586	120	60.93	322	21.618	131	23.94	291
30	46.719	109	35.17	160	55.951	179	58.13	164	[6] 14.706	66	64.15	318	[6] 21.749	85	26.85	287
Juli 9	[5] 46.828	68	36.77	148	[5] 56.130	112	59.77	172	14.772	11	67.33	306	21.834	38	29.72	275
19	46.896	26	38.25	133	56.242	42	61.49	174	14.783	44	70.39	288	21.872	11	32.47	256
29	46.922	17	39.58	116	56.284	28	63.23	170	14.739	97	73.27	262	21.861	59	35.03	234
Aug. 8	46.905	57	40.74	96	56.256	94	64.93	159	14.642	146	75.89	231	21.802	103	37.37	204
18	46.848	93	41.70	77	56.162	153	66.52	143	14.496	190	78.20	196	21.699	142	39.41	172
28	46.755	124	42.47	57	56.009	205	67.95	120	14.306	227	80.16	156	21.557	175	41.13	137
Sept. 7	46.631	147	43.04	35	55.804	245	69.15	93	14.079	255	81.72	113	21.382	202	42.50	97
17	46.484	162	43.39	14	55.559	270	70.08	61	13.824	273	82.85	67	21.180	218	43.47	57
27	46.322	167	43.53	7	55.289	282	70.69	25	13.551	282	83.52	19	20.962	226	44.04	15
Okt. 7	46.155	163	43.46	28	55.007	276	70.94	11	13.269	278	83.71	30	20.736	223	44.19	29
17	45.992	150	43.18	48	54.731	255	70.83	48	12.991	265	83.41	79	20.513	210	43.90	72
27	45.842	128	42.70	70	54.476	219	70.35	83	12.726	240	82.62	128	20.303	188	43.18	115
Nov. 6	45.714	93	42.00	90	54.257	170	69.52	114	12.486	205	81.34	175	20.115	157	42.03	156
16	45.617	61	41.10	108	54.087	110	68.38	141	12.281	163	79.59	218	19.958	119	40.47	195
26	45.556	22	40.02	126	53.977	44	66.97	163	12.118	114	77.41	256	19.839	75	38.52	228
Dez. 6	45.534	21	38.76	140	53.933	28	65.34	177	12.004	61	74.85	287	19.764	29	36.24	257
16	45.555	63	37.36	150	53.961	100	63.57	187	11.943	5	71.98	311	19.735	20	33.67	277
26	45.618	104	35.86	157	54.061	169	61.70	190	11.938	52	68.87	324	19.755	68	30.90	288
36	45.722		34.29		54.230		59.80		11.990		65.63		19.823		28.02	
Mittl. Ort	44.371		39.99		51.941		54.85		12.327		70.64		19.472		32.94	
sec δ, tg δ	1.003		+0.072		1.663		−1.328		1.387		+0.961		1.187		+0.639	

Tag	716) ζ Aquilae AR.		716) ζ Aquilae Dekl.		717) λ Aquilae AR.		717) λ Aquilae Dekl.		718) α Coron. austr. AR.		718) α Coron. austr. Dekl.		720) π Sagittarii AR.		720) π Sagittarii Dekl.	
1930	19h 2m		+13° 45′		19h 2m		−4° 59′		19h 4m		−38° 0′		19h 5m		−21° 8′	
Jan. 1	9.563	109	20.80	210	30.066	126	29.06	104	40.232	160	65.16	103	33.980	138	20.85	2
11	9.672	147	18.70	205	30.192	162	30.10	101	40.392	206	64.13	102	34.118	177	20.87	1
21	9.819	180	16.65	194	30.354	193	31.11	94	40.598	247	63.11	99	34.295	210	20.88	2
31	9.999	210	14.71	174	30.547	221	32.05	82	40.845	282	62.12	95	34.505	240	20.86	6
Feb. 10	10.209	236	12.97	147	30.768	244	32.87	65	41.127	311	61.17	89	34.745	265	20.80	13
20	10.445	258	11.50	114	31.012	264	33.52	45	41.438	335	60.28	84	35.010	284	20.67	20
März 2	10.703	274	10.36	75	31.276	280	33.97	21	41.773	355	59.44	78	35.294	301	20.47	30
12	10.977	288	9.61	33	31.556	291	34.18	5	42.128	370	58.66	71	35.595	315	20.17	39
22	11.265	297	9.28	10	31.847	300	34.13	30	42.498	380	57.95	63	35.910	323	19.78	49
Apr. 1	11.562	301	9.38	52	32.147	305	33.83	55	42.878	386	57.32	53	36.233	328	19.29	58
11	11.863	301	9.90	92	32.452	305	33.28	78	43.264	386	56.79	42	36.561	330	18.71	63
21	12.164	295	10.82	128	32.757	301	32.50	98	43.650	381	56.37	30	36.891	326	18.08	67
Mai 1	12.459	285	12.10	158	33.058	292	31.52	112	44.031	370	56.07	16	37.217	318	17.41	68
11	12.744	269	13.68	184	33.350	277	30.40	124	44.401	353	55.91	0	37.535	303	16.73	66
21	13.013	247	15.52	202	33.627	257	29.16	130	44.754	328	55.91	16	37.838	282	16.07	61
31	13.260	219	17.54	214	33.884	232	27.86	131	45.082	296	56.07	33	38.120	256	15.46	53
Juni 10	13.479	187	19.68	218	34.116	201	26.55	129	45.378	259	56.40	50	38.376	224	14.93	43
20	13.666	151	21.86	218	34.317	166	25.26	123	45.637	215	56.90	65	38.600	187	14.50	33
30	13.817	110	24.04	211	34.483	127	24.03	113	45.852	166	57.55	79	38.787	145	14.17	20
Juli 9	13.927	67	26.15	199	34.610	84	22.90	101	46.018	113	58.34	90	38.932	100	13.97	8
19	13.994	24	28.14	184	34.694	41	21.89	87	46.131	59	59.24	97	39.032	53	13.89	2
29	14.018	20	29.98	163	34.735	2	21.02	73	46.190	4	60.21	101	39.085	7	13.91	12
Aug. 8	13.998	60	31.61	141	34.733	43	20.29	58	46.194	48	61.22	101	39.092	38	14.03	20
18	13.938	98	33.02	116	34.690	81	19.71	43	46.146	97	62.23	95	39.054	79	14.23	26
28	13.840	129	34.18	90	34.609	114	19.28	29	46.049	139	63.18	85	38.975	114	14.49	28
Sept. 7	13.711	154	35.08	62	34.495	138	18.99	13	45.910	171	64.03	71	38.861	142	14.77	29
17	13.557	170	35.70	33	34.357	155	18.86	1	45.739	193	64.74	53	38.719	161	15.06	27
27	13.387	178	36.03	3	34.202	162	18.85	11	45.546	204	65.27	33	38.558	170	15.33	23
Okt. 7	13.209	175	36.06	26	34.040	160	18.96	24	45.342	202	65.60	11	38.388	167	15.56	19
17	13.034	164	35.80	55	33.880	148	19.20	36	45.140	187	65.71	12	38.221	154	15.75	15
27	12.870	142	35.25	85	33.732	126	19.56	47	44.953	161	65.59	33	38.067	132	15.90	9
Nov. 6	12.728	114	34.40	113	33.606	97	20.03	59	44.792	124	65.26	54	37.935	101	15.99	5
16	12.614	80	33.27	139	33.509	61	20.62	70	44.668	79	64.72	71	37.834	63	16.04	2
26	12.534	41	31.88	162	33.448	22	21.32	80	44.589	29	64.01	85	37.771	20	16.06	1
Dez. 6	12.493	2	30.26	182	33.426	20	22.12	90	44.560	24	63.16	95	37.751	25	16.07	0
16	12.495	44	28.44	197	33.446	62	23.02	97	44.584	79	62.21	102	37.776	70	16.07	0
26	12.539	85	26.47	205	33.508	103	23.99	101	44.663	131	61.19	105	37.846	114	16.07	1
36	12.624		24.42		33.611		25.00		44.794		60.14		37.960		16.06	
Mittl. Ort	11.541		29.17		32.055		19.95		42.671		55.07		36.099		11.11	
sec δ, tg δ	1.030		+0.245		1.004		−0.087		1.269		−0.782		1.072		−0.387	

Tag	723) δ Draconis AR.		723) δ Draconis Dekl.		724) ϑ Lyrae AR.		724) ϑ Lyrae Dekl.		725) ω Aquilae AR.		725) ω Aquilae Dekl.		726) κ Cygni AR.		726) κ Cygni Dekl.	
1930	19h 12m		+67° 31′		19h 13m		+38° 0′		19h 14m		+11° 27′		19h 15m		+53° 13′	
Jan. 1	28.78	3	72.75	353	54.029	68	22.28	306	29.869	99	56.17	193	26.439	35	73.20	341
11	28.75	9	69.22	355	54.097	117	19.22	305	29.968	136	54.24	190	26.474	101	69.79	341
21	28.84	20	65.67	343	54.214	162	16.17	292	30.104	170	52.34	180	26.575	165	66.38	329
31	29.04	29	62.24	320	54.376	205	13.25	267	30.274	200	50.54	162	26.740	224	63.09	305
Feb. 10	29.33	38	59.04	283	54.581	241	10.58	234	30.474	226	48.92	136	26.964	278	60.04	269
20	29.71	46	56.21	236	54.822	274	8.24	190	30.700	249	47.56	106	27.242	325	57.35	223
März 2	30.17	53	53.85	181	55.096	300	6.34	139	30.949	268	46.50	69	27.567	363	55.12	168
12	30.70	57	52.04	119	55.396	321	4.95	84	31.217	282	45.81	29	27.930	392	53.44	107
22	31.27	59	50.85	53	55.717	334	4.11	24	31.499	293	45.52	11	28.322	410	52.37	44
Apr. 1	31.86	61	50.32	14	56.051	342	3.87	34	31.792	300	45.63	51	28.732	419	51.93	21
11	32.47	60	50.46	78	56.393	341	4.21	91	32.092	302	46.14	90	29.151	418	52.14	85
21	33.07	58	51.24	139	56.734	334	5.12	144	32.394	299	47.04	124	29.569	405	52.99	143
Mai 1	33.65	53	52.63	195	57.068	320	6.56	191	32.693	290	48.28	154	29.974	383	54.42	197
11	34.18	48	54.58	243	57.388	298	8.47	231	32.983	276	49.82	177	30.357	350	56.39	243
21	34.66	41	57.01	283	57.686	270	10.78	264	33.259	255	51.59	196	30.707	310	58.82	280
31	35.07	32	59.84	314	57.956	234	13.42	287	33.514	230	53.55	206	31.017	261	61.62	310
Juni 10	35.39	23	62.98	335	58.190	193	16.29	303	33.744	199	55.61	212	31.278	206	64.72	330
20	35.62	14	66.33	348	58.383	148	19.32	309	33.943	163	57.73	210	31.484	145	68.02	340
30	35.76	5	69.81	351	58.531	99	22.41	308	34.106	124	59.83	204	31.629	82	71.42	341
Juli 10	35.81	6	73.32	345	58.630	48	25.49	300	34.230	81	61.87	193	31.711	17	74.83	335
19	35.75	16	76.77	331	58.678	4	28.49	284	34.311	37	63.80	177	31.728	50	78.18	320
29	35.59	25	80.08	310	58.674	55	31.33	261	34.348	6	65.57	159	31.678	114	81.38	299
Aug. 8	35.34	34	83.18	282	58.619	102	33.94	234	34.342	48	67.16	137	31.564	172	84.37	270
18	35.00	42	86.00	247	58.517	146	36.28	202	34.294	86	68.53	114	31.392	226	87.07	235
28	34.58	48	88.47	208	58.371	184	38.30	165	34.208	119	69.67	88	31.166	273	89.42	197
Sept. 7	34.10	54	90.55	164	58.187	213	39.95	125	34.089	144	70.55	62	30.893	310	91.39	153
17	33.56	57	92.19	115	57.974	234	41.20	83	33.945	163	71.17	35	30.583	337	92.92	106
27	32.99	60	93.34	64	57.740	245	42.03	38	33.782	173	71.52	8	30.246	351	93.98	56
Okt. 7	32.39	61	93.98	11	57.495	246	42.41	8	33.609	171	71.60	19	29.895	355	94.54	4
17	31.78	59	94.09	44	57.249	236	42.33	55	33.438	162	71.41	48	29.540	345	94.58	48
27	31.19	57	93.65	100	57.013	216	41.78	101	33.276	143	70.93	74	29.195	323	94.10	102
Nov. 6	30.62	52	92.65	154	56.797	188	40.77	146	33.133	117	70.19	100	28.872	290	93.08	153
16	30.10	45	91.11	204	56.609	151	39.31	189	33.016	84	69.19	125	28.582	246	91.55	201
26	29.65	38	89.07	251	56.458	109	37.42	227	32.932	46	67.94	147	28.336	195	89.54	246
Dez. 6	29.27	29	86.56	291	56.349	62	35.15	259	32.886	6	66.47	166	28.141	136	87.08	283
16	28.98	19	83.65	322	56.287	12	32.56	283	32.880	35	64.81	180	28.005	72	84.25	313
26	28.79	9	80.43	343	56.275	39	29.73	299	32.915	76	63.01	189	27.933	6	81.12	332
36	28.70		77.00		56.314		26.74		32.991		61.12		27.927		77.80	
Mittl. Ort	32.63		78.04		56.265		29.04		31.836		64.53		29.153		79.00	
sec δ, tg δ	2.617		+2.419		1.269		+0.781		1.020		+0.203		1.671		+1.339	

Tag	729) τ Draconis AR.		Dekl.		728) α Sagittarii AR.		Dekl.	
1930	19h 16m		+73° 13′		19h 18m		−40° 44′	
Jan. 1	49.67	8	29.04	350	59.850	146	68.35	124
11	49.59	6	25.54	353	59.996	194	67.11	125
21	49.65	20	22.01	344	60.190	237	65.86	123
31	49.85	34	18.57	322	60.427	275	64.63	120
Feb. 10	50.19	46	15.35	287	60.702	308	63.43	114
20	50.65	57	12.48	242	61.010	335	62.29	109
März 2	51.22	66	10.06	188	61.345	358	61.20	100
12	51.88	72	8.18	128	61.703	376	60.20	91
22	52.60	76	6.90	63	62.079	389	59.29	82
Apr. 1	53.36	78	6.27	4	62.468	398	58.47	69
11	54.14	77	6.31	69	62.866	401	57.78	56
21	54.91	73	7.00	129	63.267	398	57.22	40
Mai 1	55.64	68	8.29	186	63.665	389	56.82	23
11	56.32	60	10.15	235	64.054	373	56.59	4
21	56.92	51	12.50	276	64.427	350	56.55	15
31	57.43	40	15.26	308	64.777	320	56.70	35
Juni 10	57.83	28	18.34	332	65.097	281	57.05	54
20	58.11	16	21.66	345	65.378	237	57.59	73
30	58.27	2	25.11	349	65.615	187	58.32	89
Juli 10	58.29	11	28.60	346	65.802	133	59.21	102
19	[12] 58.18	23	32.06	334	[12] 65.935	76	60.23	111
29	57.95	36	35.40	314	66.011	18	61.34	117
Aug. 8	57.59	47	38.54	287	66.029	37	62.51	116
18	57.12	57	41.41	255	65.992	89	63.67	112
28	56.55	66	43.96	216	65.903	134	64.79	102
Sept. 7	55.89	73	46.12	173	65.769	170	65.81	87
17	55.16	79	47.85	126	65.599	197	66.68	68
27	54.37	81	49.11	75	65.402	211	67.36	46
Okt. 7	53.56	83	49.86	22	65.191	212	67.82	21
17	52.73	82	50.08	33	64.979	200	68.03	5
27	51.91	78	49.75	88	64.779	177	67.98	31
Nov. 6	51.13	73	48.87	142	64.602	141	67.67	54
16	50.40	65	47.45	194	64.461	97	67.13	76
26	49.75	56	45.51	241	64.364	48	66.37	94
Dez. 6	49.19	44	43.10	283	64.316	6	65.43	108
16	48.75	31	40.27	316	64.322	61	64.35	118
26	48.44	18	37.11	338	64.383	115	63.17	124
36	48.26		33.73		64.498		61.93	
Mittl. Ort	54.59		33.75		62.326		57.29	
sec δ, tg δ	3.465		+3.318		1.320		−0.862	

Tag	730) δ Aquilae AR.		Dekl.		732) β Cygni AR.		Dekl.	
1930	19h 21m		+2° 58′		19h 27m		+27° 48′	
Jan. 1	56.191	100	17.14	143	51.794	67	34.66	264
11	56.291	136	15.71	142	51.861	109	32.02	264
21	56.427	169	14.29	132	51.970	149	29.38	254
31	56.596	199	12.97	117	52.119	185	26.84	233
Feb. 10	56.795	224	11.80	97	52.304	218	24.51	204
20	57.019	246	10.83	71	52.522	247	22.47	166
März 2	57.265	265	10.12	41	52.769	271	20.81	120
12	57.530	280	9.71	9	53.040	292	19.61	71
22	57.810	291	9.62	24	53.332	306	18.90	19
Apr. 1	58.101	299	9.86	57	53.638	315	18.71	34
11	58.400	303	10.43	87	53.953	319	19.05	85
21	58.703	302	11.30	115	54.272	316	19.90	133
Mai 1	59.005	294	12.45	137	54.588	307	21.23	175
11	59.299	283	13.82	155	54.895	292	22.98	210
21	59.582	264	15.37	167	55.187	269	25.08	240
31	59.846	240	17.04	174	55.456	241	27.48	261
Juni 10	60.086	211	18.78	175	55.697	206	30.09	274
20	60.297	177	20.53	171	55.903	167	32.83	279
30	60.474	137	22.24	163	56.070	123	35.62	278
Juli 10	60.611	96	23.87	152	56.193	77	38.40	270
19	[13] 60.707	53	25.39	137	[14] 56.270	30	41.10	255
29	60.760	9	26.76	119	56.300	17	43.65	235
Aug. 8	60.769	33	27.95	101	56.283	62	46.00	210
18	60.736	72	28.96	81	56.221	104	48.10	182
28	60.664	105	29.77	61	56.117	140	49.92	149
Sept. 7	60.559	132	30.38	41	55.977	169	51.41	114
17	60.427	152	30.79	20	55.808	191	52.55	78
27	60.275	162	30.99	1	55.617	203	53.33	39
Okt. 7	60.113	162	31.00	20	55.414	205	53.72	1
17	59.951	153	30.80	39	55.209	198	53.71	42
27	59.798	136	30.41	58	55.011	181	53.29	82
Nov. 6	59.662	110	29.83	77	54.830	157	52.47	121
16	59.552	78	29.06	94	54.673	124	51.26	158
26	59.474	42	28.12	110	54.549	87	49.68	192
Dez. 6	59.432	2	27.02	124	54.462	46	47.76	220
16	59.430	38	25.78	134	54.416	3	45.56	242
26	59.468	78	24.44	140	54.413	42	43.14	257
36	59.546		23.04		54.455		40.57	
Mittl. Ort	58.142		26.02		53.871		41.56	
sec δ, tg δ	1.001		+0.052		1.131		+0.527	

Tag	733) ι Cygni AR.		Dekl.		736) *h* Sagittarii AR.		Dekl.		738) ϑ Cygni AR.		Dekl.		742) δ Cygni AR.		Dekl.	
1930	19h 27m		+51° 34′		19h 32m		−25° 2′		19h 34m		+50° 3′		19h 42m		+44° 57′	
Jan. 1	53.847	20	42.48	333	24.839	113	33.55	31	31.249	14	24.49	327	44.832	18	27.64	313
11	53.867	83	39.15	336	24.952	153	33.24	35	31.263	76	21.22	332	44.850	72	24.51	318
21	53.950	145	35.79	327	25.105	189	32.89	38	31.339	135	17.90	323	44.922	125	21.33	311
31	54.095	203	32.52	305	25.294	221	32.51	43	31.474	191	14.67	304	45.047	175	18.22	293
Febr. 10	54.298	256	29.47	272	25.515	249	32.08	49	31.665	242	11.63	271	45.222	222	15.29	263
20	54.554	302	26.75	228	25.764	274	31.59	55	31.907	289	8.92	229	45.444	263	12.66	222
März 2	54.856	341	24.47	176	26.038	294	31.04	62	32.196	327	6.63	177	45.707	299	10.44	173
12	55.197	373	22.71	116	26.332	311	30.42	68	32.523	358	4.86	120	46.006	328	8.71	117
22	55.570	394	21.55	54	26.643	325	29.74	74	32.881	381	3.66	58	46.334	351	7.54	58
April 1	55.964	405	21.01	9	26.968	335	29.00	79	33.262	395	3.08	6	46.685	365	6.96	3
11	56.369	408	21.10	73	27.303	340	28.21	81	33.657	399	3.14	68	47.050	372	6.99	65
21	56.777	400	21.83	133	27.643	341	27.40	81	34.056	393	3.82	127	47.422	369	7.64	121
Mai 1	57.177	382	23.16	186	27.984	337	26.59	77	34.449	377	5.09	181	47.791	358	8.85	174
11	57.559	353	25.02	234	28.321	325	25.82	72	34.826	352	6.90	229	48.149	338	10.59	222
21	57.912	317	27.36	273	28.646	308	25.10	62	35.178	318	9.19	268	48.487	310	12.81	260
31	58.229	273	30.09	303	28.954	284	24.48	51	35.496	276	11.87	300	48.797	274	15.41	290
Juni 10	58.502	221	33.12	326	29.238	254	23.97	37	35.772	228	14.87	322	49.071	231	18.31	313
20	58.723	164	36.38	338	29.492	217	23.60	23	36.000	173	18.09	336	49.302	182	21.44	326
30	58.887	103	39.76	341	29.709	176	23.37	7	36.173	113	21.45	341	49.484	129	24.70	331
Juli 10	58.990	39	43.17	337	29.885	130	23.30	7	36.286	53	24.86	337	49.613	73	28.01	328
19	14 59.029	24	46.54	325	16 30.015	81	23.37	20	16 36.339	9	28.23	325	18 49.686	16	31.29	317
29	59.005	87	49.79	304	30.096	33	23.57	32	36.330	71	31.48	306	49.702	41	34.46	299
Aug. 8	58.918	146	52.83	277	30.129	14	23.89	40	36.259	129	34.54	280	49.661	96	37.45	275
18	58.772	199	55.60	246	30.115	60	24.29	47	36.130	182	37.34	250	49.565	145	40.20	244
28	58.573	247	58.06	208	30.055	100	24.76	49	35.948	229	39.84	212	49.420	190	42.64	209
Sept. 7	58.326	285	60.14	166	29.955	131	25.25	48	35.719	267	41.96	171	49.230	227	44.73	170
17	58.041	313	61.80	120	29.824	155	25.73	45	35.452	296	43.67	127	49.003	254	46.43	126
27	57.728	330	63.00	71	29.669	169	26.18	39	35.156	314	44.94	78	48.749	273	47.69	81
Okt. 7	57.398	336	63.71	20	29.500	172	26.57	30	34.842	321	45.72	28	48.476	279	48.50	32
17	57.062	329	63.91	32	29.328	163	26.87	20	34.521	315	46.00	24	48.197	276	48.82	17
27	56.733	311	63.59	85	29.165	146	27.07	10	34.206	299	45.76	76	47.921	262	48.65	68
Nov. 6	56.422	282	62.74	137	29.019	118	27.17	1	33.907	272	45.00	128	47.659	238	47.97	118
16	56.140	242	61.37	186	28.901	84	27.18	8	33.635	235	43.72	178	47.421	205	46.79	165
26	55.898	195	59.51	231	28.817	43	27.10	16	33.400	190	41.94	222	47.216	164	45.14	209
Dez. 6	55.703	140	57.20	270	28.774	0	26.94	22	33.210	138	39.72	262	47.052	118	43.05	248
16	55.563	81	54.50	301	28.774	45	26.72	27	33.072	81	37.10	293	46.934	68	40.57	279
26	55.482	18	51.49	322	28.819	89	26.45	31	32.991	22	34.17	316	46.866	14	37.78	302
36	55.464		48.27		28.908		26.14		32.969		31.01		46.852		34.76	
Mittl. Ort	56.499		47.60		26.951		22.52		33.842		29.30		47.248		32.38	
sec δ, tg δ	1.609		+1.261		1.104		−0.467		1.558		+1.194		1.413		+0.999	

Scheinbare Sternörter 1930

Tag	741) γ Aquilae				743) δ Sagittae				745) α Aquilae [1]				747) ε Draconis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	$19^h 42^m$		+10° 26′		$19^h 44^m$		+18° 21′		$19^h 47^m$		+8° 40′		$19^h 48^m$		+70° 4′	
Jan. 1	53.960	72	21.30	178	14.000	63	30.42	216	20.137	73	47.70	165	20.83	14	80.15	336
11	54.032	109	19.52	176	14.063	100	28.26	217	20.210	110	46.05	164	20.69	2	76.79	348
21	54.141	143	17.76	168	14.163	136	26.09	208	20.320	143	44.41	155	20.67	11	73.31	346
31	54.284	175	16.08	152	14.299	170	24.01	192	20.463	175	42.86	140	20.78	22	69.85	332
Feb. 10	54.459	202	14.56	130	14.469	201	22.09	166	20.638	203	41.46	118	21.00	33	66.53	305
20	54.661	228	13.26	100	14.670	228	20.43	134	20.841	228	40.28	90	21.33	43	63.48	267
März 2	54.889	251	12.26	67	14.898	252	19.09	95	21.069	250	39.38	57	21.76	51	60.81	217
12	55.140	269	11.59	29	15.150	272	18.14	52	21.319	270	38.81	20	22.27	59	58.64	160
22	55.409	285	11.30	10	15.422	289	17.62	7	21.589	284	38.61	16	22.86	63	57.04	99
Apr. 1	55.694	296	11.40	49	15.711	300	17.55	38	21.873	296	38.77	54	23.49	67	56.05	33
11	55.990	303	11.89	87	16.011	307	17.93	83	22.169	303	39.31	91	24.16	67	55.72	32
21	56.293	304	12.76	121	16.318	308	18.76	124	22.472	305	40.22	123	24.83	66	56.04	96
Mai 1	56.597	300	13.97	151	16.626	304	20.00	160	22.777	302	41.45	151	25.49	64	57.00	155
11	56.897	290	15.48	175	16.930	293	21.60	191	23.079	291	42.96	174	26.13	58	58.55	209
21	57.187	274	17.23	194	17.223	275	23.51	215	23.370	276	44.70	191	26.71	51	60.64	255
31	57.461	251	19.17	206	17.498	251	25.66	232	23.646	254	46.61	202	27.22	43	63.19	293
Juni 10	57.712	223	21.23	213	17.749	221	27.98	243	23.900	226	48.63	208	27.65	34	66.12	321
20	57.935	189	23.36	212	17.970	186	30.41	246	24.126	192	50.71	206	27.99	23	69.33	343
30	58.124	150	25.48	207	18.156	147	32.87	244	24.318	154	52.77	201	28.22	13	72.76	354
Juli 10	58.274	108	27.55	197	18.303	103	35.31	235	24.472	113	54.78	190	28.35	2	76.30	357
19*)	58.382	65	29.52	182	18.406	58	37.66	221	24.585	69	56.68	175	28.37	10	79.87	351
29	58.447	21	31.34	165	18.464	13	39.87	203	24.654	24	58.43	157	28.27	20	83.38	338
Aug. 8	58.468	23	32.99	143	18.477	31	41.90	181	24.678	18	60.00	136	28.07	30	86.76	316
18	58.445	63	34.42	121	18.446	72	43.71	155	24.660	59	61.36	114	27.77	40	89.92	288
28	58.382	99	35.63	97	18.374	109	45.26	128	24.601	94	62.50	91	27.37	48	92.80	255
Sept. 7	58.283	128	36.60	72	18.265	139	46.54	98	24.507	125	63.41	66	26.89	56	95.35	214
17	58.155	150	37.32	45	18.126	161	47.52	67	24.382	146	64.07	42	26.33	61	97.49	171
27	58.005	163	37.77	19	17.965	175	48.19	35	24.236	159	64.49	16	25.72	65	99.20	122
Okt. 7	57.842	168	37.96	7	17.790	180	48.54	2	24.077	164	64.65	8	25.07	67	100.42	69
17	57.674	162	37.89	34	17.610	174	48.56	31	23.913	159	64.57	33	24.40	67	101.11	15
27	57.512	148	37.55	59	17.436	161	48.25	63	23.754	145	64.24	57	23.73	66	101.26	41
Nov. 6	57.364	126	36.96	85	17.275	140	47.62	96	23.609	124	63.67	80	23.07	63	100.85	98
16	57.238	98	36.11	108	17.135	111	46.66	127	23.485	95	62.87	102	22.44	57	99.87	153
26	57.140	64	35.03	130	17.024	77	45.39	154	23.390	62	61.85	122	21.87	50	98.34	204
Dez. 6	57.076	27	33.73	149	16.947	40	43.85	178	23.328	25	60.63	139	21.37	42	96.30	251
16	57.049	11	32.24	163	16.907	1	42.07	197	23.303	13	59.24	152	20.95	31	93.79	291
26	57.060	50	30.61	172	16.906	39	40.10	209	23.316	51	57.72	160	20.64	21	90.88	320
36	57.110		28.89		16.945		38.01		23.367		56.12		20.43		87.68	
Mittl. Ort	55.898		29.43		15.978		37.71		22.067		56.08		25.16		82.60	
sec δ, tg δ	1.017		+0.184		1.054		+0.332		1.012		+0.153		2.936		+2.761	

¹) Die jährliche Parallaxe (0.″23) ist bereits berücksichtigt.

*) Bei Stern 747) lies Juli 20

Tag	749) β Aquilae				748) ε Pavonis				750) ψ Cygni				751) ϑ¹ Sagittarii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	19h 51m		+6° 13′		19h 52m		−73° 5′		19h 53m		+52° 14′		19h 55m		−35° 27′	
Jan. 1	50.567	68	42.14	153	26.36	13	66.13	296	46.540	21	65.31	322	8.752	95	74.51	100
11	50.635	104	40.61	152	26.49	27	63.17	301	46.519	42	62.09	331	8.847	139	73.51	107
21	50.739	137	39.09	144	26.76	39	60.16	298	46.561	105	58.78	327	8.986	180	72.44	112
31	50.876	168	37.65	129	27.15	51	57.18	288	46.666	165	55.51	312	9.166	218	71.32	115
Feb. 10	51.044	197	36.36	109	27.66	61	54.30	272	46.831	222	52.39	284	9.384	251	70.17	118
20	51.241	222	35.27	82	28.27	71	51.58	248	47.053	273	49.55	245	9.635	281	68.99	118
März 2	51.463	245	34.45	52	28.98	78	49.10	221	47.326	319	47.10	197	9.916	307	67.81	118
12	51.708	265	33.93	18	29.76	85	46.89	189	47.645	357	45.13	141	10.223	329	66.63	116
22	51.973	281	33.75	18	30.61	89	45.00	153	48.002	385	43.72	80	10.552	348	65.47	113
Apr. 1	52.254	294	33.93	54	31.50	92	43.47	115	48.387	405	42.92	17	10.900	363	64.34	107
11	52.548	301	34.47	87	32.42	95	42.32	74	48.792	414	42.75	46	11.263	373	63.27	98
21	52.849	305	35.34	118	33.37	95	41.58	33	49.206	413	43.21	107	11.636	377	62.29	88
Mai 1	53.154	303	36.52	144	34.32	92	41.25	10	49.619	401	44.28	163	12.013	376	61.41	75
11	53.457	294	37.96	166	35.24	89	41.35	53	50.020	379	45.91	213	12.389	367	60.66	58
21	53.751	280	39.62	181	36.13	84	41.88	94	50.399	347	48.04	257	12.756	352	60.08	40
31	54.031	259	41.43	191	36.97	77	42.82	134	50.746	306	50.61	292	13.108	328	59.68	20
Juni 10	54.290	232	43.34	195	37.74	68	44.16	169	51.052	257	53.53	318	13.436	298	59.48	1
20	54.522	199	45.29	194	38.42	57	45.85	200	51.309	202	56.71	336	13.734	260	59.49	21
30	54.721	161	47.23	187	38.99	45	47.85	227	51.511	142	60.07	345	13.994	215	59.70	42
Juli 10	54.882	121	49.10	177	39.44	32	50.12	245	51.653	78	63.52	345	14.209	166	60.12	60
20	55.003	77	50.87	162	39.76	18	52.57	257	51.731	12	66.97	337	14.375	113	60.72	76
29	[20] 55.080	32	52.49	144	[21] 39.94	5	55.14	260	[21] 51.743	52	70.34	322	[21] 14.488	59	61.48	88
Aug. 8	55.112	11	53.93	125	39.99	10	57.74	255	51.691	113	73.56	299	14.547	5	62.36	97
18	55.101	51	55.18	104	39.89	23	60.29	241	51.578	171	76.55	270	14.552	47	63.33	100
28	55.050	88	56.22	81	39.66	36	62.70	216	51.407	223	79.25	236	14.505	93	64.33	98
Sept. 7	54.962	119	57.03	59	39.30	46	64.86	184	51.184	265	81.61	197	14.412	132	65.31	92
17	54.843	142	57.62	36	38.84	55	66.70	145	50.919	299	83.58	153	14.280	163	66.23	81
27	54.701	156	57.98	13	38.29	60	68.15	98	50.620	323	85.11	105	14.117	183	67.04	66
Okt. 7	54.545	161	58.11	10	37.69	63	69.13	47	50.297	333	86.16	56	13.934	191	67.70	48
17	54.384	157	58.01	32	37.06	64	69.60	6	49.964	334	86.72	3	13.743	188	68.18	27
27	54.227	145	57.69	54	36.42	60	69.54	61	49.630	322	86.75	50	13.555	173	68.45	5
Nov. 6	54.082	124	57.15	75	35.82	54	68.93	114	49.308	299	86.25	103	13.382	147	68.50	17
16	53.958	97	56.40	95	35.28	45	67.79	163	49.009	266	85.22	155	13.235	113	68.33	37
26	53.861	64	55.45	113	34.83	35	66.16	206	48.743	223	83.67	202	13.122	73	67.96	56
Dez. 6	53.797	29	54.32	129	34.48	23	64.10	242	48.520	173	81.65	245	13.049	27	67.40	73
16	53.768	8	53.03	141	34.25	9	61.68	271	48.347	118	79.20	281	13.022	20	66.67	86
26	53.776	47	51.62	148	34.16	4	58.97	291	48.229	58	76.39	308	13.042	67	65.81	97
36	53.823		50.14		34.20		56.06		48.171		73.31		13.109		64.84	
Mittl. Ort	52.481		50.64		31.51		51.76		49.229		68.72		10.963		61.67	
sec δ, tg δ	1.006		+0.109		3.439		−3.291		1.633		+1.292		1.228		−0.712	

Tag	752) γ Sagittae AR.		752) γ Sagittae Dekl.		754) δ Pavonis AR.		754) δ Pavonis Dekl.		756) ϑ Aquilae AR.		756) ϑ Aquilae Dekl.		759) κ Cephei AR.		759) κ Cephei Dekl.	
1930	19h 55m		+19° 17′		20h 1m		−66° 21′		20h 7m		−1° 1′		20h 11m		+77° 29′	
Jan. 1	36.643	50	56.43	216	48.74	10	61.00	264	39.744	59	58.49	106	10.24	38	64.85	316
11	36.693	88	54.27	218	48.84	20	58.36	273	39.803	95	59.55	103	9.86	20	61.69	336
21	36.781	125	52.09	211	49.04	29	55.63	274	39.898	127	60.58	96	9.66	1	58.33	342
31	36.906	158	49.98	194	49.33	37	52.89	268	40.025	158	61.54	83	9.65	19	54.91	335
Feb. 10	37.064	191	48.04	171	49.70	45	50.21	256	40.183	187	62.37	65	9.84	37	51.56	316
20	37.255	219	46.33	138	50.15	52	47.65	239	40.370	213	63.02	43	10.21	55	48.40	285
März 2	37.474	244	44.95	101	50.67	57	45.26	216	40.583	237	63.45	18	10.76	70	45.55	242
12	37.718	267	43.94	58	51.24	62	43.10	190	40.820	258	63.63	10	11.46	82	43.13	191
22	37.985	285	43.36	12	51.86	66	41.20	160	41.078	276	63.53	39	12.28	92	41.22	132
Apr. 1	38.270	298	43.24	33	52.52	68	39.60	127	41.354	291	63.14	68	13.20	98	39.90	69
11	38.568	308	43.57	78	53.20	70	38.33	92	41.645	302	62.46	95	14.18	101	39.21	5
21	38.876	311	44.35	121	53.90	71	37.41	54	41.947	308	61.51	120	15.19	101	39.16	58
Mai 1	39.187	308	45.56	158	54.61	70	36.87	15	42.255	309	60.31	139	16.20	96	39.74	120
11	39.495	299	47.14	190	55.31	68	36.72	25	42.564	303	58.92	154	17.16	90	40.94	175
21	39.794	282	49.04	216	55.99	65	36.97	64	42.867	292	57.38	165	18.06	80	42.69	226
31	40.076	259	51.20	235	56.64	60	37.61	102	43.159	272	55.73	170	18.86	69	44.95	268
Juni 10	40.335	231	53.55	246	57.24	54	38.63	137	43.431	248	54.03	169	19.55	55	47.63	303
20	40.566	196	56.01	252	57.78	46	40.00	169	43.679	217	52.34	165	20.10	39	50.66	329
30	40.762	156	58.53	250	58.24	38	41.69	196	43.896	181	50.69	157	20.49	23	53.95	347
Juli 10	40.918	114	61.03	242	58.62	29	43.65	217	44.077	141	49.12	143	20.72	6	57.42	356
20	41.032	69	63.45	230	58.91	18	45.82	233	44.218	98	47.69	129	20.78	12	60.98	357
29	[21] 41.101	23	65.75	212	[23] 59.09	8	48.15	239	[24] 44.316	53	46.40	111	[25] 20.66	28	64.55	350
Aug. 8	41.124	22	67.87	190	59.17	3	50.54	239	44.369	8	45.29	93	20.38	44	68.05	334
18	41.102	64	69.77	165	59.14	13	52.93	229	44.377	33	44.36	74	19.94	59	71.39	313
28	41.038	101	71.42	138	59.01	22	55.22	210	44.344	72	43.62	54	19.35	72	74.52	284
Sept. 7	40.937	133	72.80	108	58.79	30	57.32	184	44.272	103	43.08	36	18.63	85	77.36	249
17	40.804	157	73.88	76	58.49	36	59.16	150	44.169	129	42.72	18	17.78	94	79.85	209
27	40.647	172	74.64	44	58.13	41	60.66	109	44.040	146	42.54	1	16.84	102	81.94	164
Okt. 7	40.475	179	75.08	11	57.72	43	61.75	63	43.894	153	42.53	15	15.82	107	83.58	114
17	40.296	176	75.19	23	57.29	44	62.38	15	43.741	152	42.68	30	14.75	109	84.72	61
27	40.120	164	74.96	57	56.85	41	62.53	35	43.589	141	42.98	44	13.66	109	85.33	5
Nov. 6	39.956	144	74.39	89	56.44	38	62.18	85	43.448	123	43.42	58	12.57	107	85.38	52
16	39.812	118	73.50	121	56.06	31	61.33	131	43.325	98	44.00	71	11.50	100	84.86	109
26	39.694	86	72.29	149	55.75	24	60.02	172	43.227	68	44.71	82	10.50	91	83.77	164
Dez. 6	39.608	50	70.80	174	55.51	15	58.30	208	43.159	34	45.53	92	9.59	79	82.13	214
16	39.558	12	69.06	195	55.36	5	56.22	237	43.125	2	46.45	99	8.80	66	79.99	260
26	39.546	27	67.11	209	55.31	4	53.85	259	43.127	39	47.44	103	8.14	49	77.39	296
36	39.573		65.02		55.35		51.26		43.166		48.47		7.65		74.43	
Mittl. Ort	38.614		63.32		52.55		46.00		41.621		49.13		16.71		65.04	
sec δ, tg δ	1.060		+0.350		2.494		−2.285		1.000		−0.018		4.621		+4.511	

Tag	757) o^1 Cygni sq. AR.	Diff.	Dekl.	Diff.	760) 24 Vulpeculae AR.	Diff.	Dekl.	Diff.
1930	$20^h\ 11^m$		$+46°\ 31'$		$20^h\ 13^m$		$+24°\ 26'$	
Jan. 1	23.190	24	38.67	301	45.359	25	70.25	230
11	23.166	30	35.66	312	45.384	63	67.95	235
21	23.196	84	32.54	312	45.447	102	65.60	231
31	23.280	137	29.42	299	45.549	138	63.29	217
Feb. 10	23.417	188	26.43	275	45.687	173	61.12	194
20	23.605	235	23.68	239	45.860	205	59.18	163
März 2	23.840	276	21.29	195	46.065	234	57.55	124
12	24.116	313	19.34	143	46.299	260	56.31	80
22	24.429	343	17.91	85	46.559	283	55.51	32
Apr. 1	24.772	365	17.06	24	46.842	299	55.19	17
11	25.137	378	16.82	37	47.141	312	55.36	66
21	25.515	383	17.19	95	47.453	318	56.02	112
Mai 1	25.898	377	18.14	151	47.771	318	57.14	154
11	26.275	363	19.65	200	48.089	311	58.68	191
21	26.638	339	21.65	244	48.400	296	60.59	222
31	26.977	306	24.09	279	48.696	274	62.81	245
Juni 10	27.283	266	26.88	307	48.970	246	65.26	261
20	27.549	219	29.95	325	49.216	211	67.87	271
30	27.768	167	33.20	335	49.427	172	70.58	273
Juli 10	27.935	110	36.55	337	49.599	128	73.31	268
20	28.045	52	39.92	332	49.727	82	75.99	258
29	[25] 28.097	7	43.24	318	[26] 49.809	34	78.57	242
Aug. 8	28.090	64	46.42	297	49.843	12	80.99	221
18	28.026	119	49.39	272	49.831	55	83.20	197
28	27.907	167	52.11	239	49.776	95	85.17	168
Sept. 7	27.740	208	54.50	203	49.681	130	86.85	137
17	27.532	242	56.53	161	49.551	156	88.22	103
27	27.290	266	58.14	117	49.395	175	89.25	68
Okt. 7	27.024	279	59.31	70	49.220	185	89.93	32
17	26.745	282	60.01	19	49.035	185	90.25	5
27	26.463	274	60.20	31	48.850	177	90.20	43
Nov. 6	26.189	256	59.89	83	48.673	160	89.77	80
16	25.933	229	59.06	132	48.513	137	88.97	116
26	25.704	195	57.74	179	48.376	107	87.81	149
Dez. 6	25.509	152	55.95	223	48.269	73	86.32	178
16	25.357	106	53.72	258	48.196	37	84.54	203
26	25.251	55	51.14	286	48.159	2	82.51	220
36	25.196		48.28		48.161		80.31	
Mittl. Ort	25.640		41.57		47.353		75.91	
sec δ tg δ	1.453		+1.055		1.098		+0.455	

Tag	761) α^2 Capricorni AR.	Diff.	Dekl.	Diff.	765) γ Cygni AR.	Diff.	Dekl.	Diff.
1930	$20^h\ 14^m$		$-12°\ 45'$		$20^h\ 19^m$		$+40°\ 1'$	
Jan. 1	8.453	61	57.71	35	40.674	14	51.16	280
11	8.514	98	58.06	30	40.660	34	48.36	291
21	8.612	131	58.36	21	40.694	81	45.45	291
31	8.743	162	58.57	11	40.775	127	42.54	279
Feb. 10	8.905	192	58.68	3	40.902	171	39.75	256
20	9.097	218	58.65	19	41.073	213	37.19	223
März 2	9.315	242	58.46	37	41.286	251	34.96	180
12	9.557	264	58.09	55	41.537	284	33.16	131
22	9.821	284	57.54	74	41.821	313	31.85	76
Apr. 1	10.105	300	56.80	91	42.134	334	31.09	19
11	10.405	311	55.89	107	42.468	349	30.90	39
21	10.716	319	54.82	119	42.817	355	31.29	95
Mai 1	11.035	321	53.63	128	43.172	354	32.24	148
11	11.356	317	52.35	132	43.526	343	33.72	195
21	11.673	306	51.03	132	43.869	325	35.67	236
31	11.979	289	49.71	128	44.194	298	38.03	269
Juni 10	12.268	265	48.43	121	44.492	264	40.72	294
20	12.533	234	47.22	109	44.756	223	43.66	312
30	12.767	198	46.13	96	44.979	176	46.78	321
Juli 10	12.965	157	45.17	79	45.155	125	49.99	323
20	13.122	113	44.38	63	45.280	72	53.22	316
29	[26] 13.235	67	43.75	45	[28] 45.352	18	56.38	303
Aug. 8	13.302	21	43.30	29	45.370	34	59.41	284
18	13.323	23	43.01	14	45.336	85	62.25	258
28	13.300	63	42.87	2	45.251	130	64.83	227
Sept. 7	13.237	98	42.89	10	45.121	170	67.10	193
17	13.139	125	42.99	21	44.951	201	69.03	154
27	13.014	143	43.20	28	44.750	224	70.57	112
Okt. 7	12.871	152	43.48	33	44.526	237	71.69	67
17	12.719	152	43.81	36	44.289	241	72.36	20
27	12.567	143	44.17	38	44.048	234	72.56	27
Nov. 6	12.424	124	44.55	39	43.814	218	72.29	75
16	12.300	99	44.94	40	43.596	195	71.54	122
26	12.201	68	45.34	40	43.401	164	70.32	165
Dez. 6	12.133	33	45.74	39	43.237	127	68.67	206
16	12.100	3	46.13	38	43.110	85	66.61	240
26	12.103	40	46.51	36	43.025	41	64.21	266
36	12.143		46.87		42.984		61.55	
Mittl. Ort	10.341		46.70		42.926		54.40	
sec δ tg δ	1.025		−0.226		1.306		+0.840	

Scheinbare Sternörter 1930

764) α Pavonis

Tag	AR.		Dekl.	
1930	20h 20m		−56° 57′	
Jan. 1	4.467	61	55.15	222
11	4.528	130	52.93	235
21	4.658	194	50.58	241
31	4.852	255	48.17	242
Feb. 10	5.107	310	45.75	238
20	5.417	361	43.37	229
März 2	5.778	404	41.08	216
12	6.182	444	38.92	198
22	6.626	477	36.94	177
Apr. 1	7.103	502	35.17	153
11	7.605	521	33.64	125
21	8.126	533	32.39	95
Mai 1	8.659	534	31.44	62
11	9.193	525	30.82	28
21	9.718	507	30.54	7
31	10.225	477	30.61	43
Juni 10	10.702	436	31.04	77
20	11.138	384	31.81	109
30	11.522	324	32.90	139
Juli 10	11.846	255	34.29	164
20	12.101	181	35.93	183
29*)	[28] 12.282	102	37.76	196
Aug. 8	12.384	23	39.72	202
18	12.407	54	41.74	200
28	12.353	125	43.74	191
Sept. 7	12.228	189	45.65	174
17	12.039	241	47.39	149
27	11.798	279	48.88	117
Okt. 7	11.519	300	50.05	80
17	11.219	307	50.85	40
27	10.912	296	51.25	3
Nov. 6	10.616	269	51.22	46
16	10.347	229	50.76	88
26	10.118	177	49.88	127
Dez. 6	9.941	116	48.61	161
16	9.825	49	47.00	190
26	9.776	20	45.10	214
36	9.796		42.96	
Mittl. Ort	7.287		39.27	
sec δ, tg δ	1.834		−1.538	

767) θ Cephei

Tag	AR.		Dekl.	
1930	20h 28m		+62° 45′	
Jan. 1	21.26	14	30.24	310
11	21.12	6	27.14	330
21	21.06	2	23.84	336
31	21.08	11	20.48	331
Feb. 10	21.19	20	17.17	313
20	21.39	27	14.04	282
März 2	21.66	34	11.22	241
12	22.00	41	8.81	190
22	22.41	46	6.91	132
Apr. 1	22.87	49	5.59	70
11	23.36	52	4.89	6
21	23.88	53	4.83	57
Mai 1	24.41	52	5.40	120
11	24.93	50	6.60	176
21	25.43	46	8.36	226
31	25.89	41	10.62	270
Juni 10	26.30	36	13.32	305
20	26.66	29	16.37	332
30	26.95	21	19.69	350
Juli 10	27.16	13	23.19	360
20	27.29	5	26.79	362
29*)	27.34	4	30.41	354
Aug. 8	[30] 27.30	12	33.95	339
18	27.18	20	37.34	318
28	26.98	26	40.52	289
Sept. 7	26.72	33	43.41	254
17	26.39	38	45.95	214
27	26.01	42	48.09	169
Okt. 7	25.59	45	49.78	119
17	25.14	47	50.97	67
27	24.67	46	51.64	11
Nov. 6	24.21	45	51.75	45
16	23.76	42	51.30	102
26	23.34	37	50.28	157
Dez. 6	22.97	32	48.71	208
16	22.65	27	46.63	252
26	22.38	19	44.11	289
36	22.19		41.22	
Mittl. Ort	24.62		30.23	
sec δ, tg δ	2.185		+1.942	

768) ε Delphini

Tag	AR.		Dekl.	
1930	20h 29m		+11° 3′	
Jan. 1	50.269	27	43.91	162
11	50.296	62	42.29	165
21	50.358	96	40.64	158
31	50.454	129	39.06	146
Feb. 10	50.583	159	37.60	127
20	50.742	189	36.33	101
März 2	50.931	217	35.32	70
12	51.148	241	34.62	34
22	51.389	264	34.28	4
Apr. 1	51.653	283	34.32	43
11	51.936	297	34.75	80
21	52.233	307	35.55	116
Mai 1	52.540	310	36.71	148
11	52.850	307	38.19	175
21	53.157	297	39.94	196
31	53.454	281	41.90	211
Juni 10	53.735	257	44.01	220
20	53.992	227	46.21	223
30	54.219	192	48.44	221
Juli 10	54.411	152	50.65	212
20	54.563	109	52.77	200
29*)	54.672	64	54.77	183
Aug. 8	[30] 54.736	20	56.60	163
18	54.756	24	58.23	141
28	54.732	63	59.64	117
Sept. 7	54.669	96	60.81	93
17	54.573	125	61.74	66
27	54.448	145	62.40	40
Okt. 7	54.303	155	62.80	14
17	54.148	157	62.94	12
27	53.991	152	62.82	38
Nov. 6	53.839	137	62.44	64
16	53.702	117	61.80	88
26	53.585	91	60.92	109
Dez. 6	53.494	60	59.83	129
16	53.434	27	58.54	145
26	53.407	7	57.09	156
36	53.414		55.53	
Mittl. Ort	52.123		51.23	
sec δ, tg δ	1.019		+0.196	

770) 73 Draconis

Tag	AR.		Dekl.	
1930	20h 32m		+74° 42′	
Jan. 1	21.76	36	55.40	303
11	21.40	21	52.37	327
21	21.19	6	49.10	338
31	21.13	10	45.72	338
Feb. 10	21.23	25	42.34	323
20	21.48	39	39.11	296
März 2	21.87	53	36.15	258
12	22.40	64	33.57	210
22	23.04	73	31.47	153
Apr. 1	23.77	80	29.94	92
11	24.57	83	29.02	29
21	25.40	85	28.73	36
Mai 1	26.25	83	29.09	98
11	27.08	79	30.07	156
21	27.87	73	31.63	208
31	28.60	64	33.71	255
Juni 10	29.24	53	36.26	294
20	29.77	42	39.20	323
30	30.19	28	42.43	346
Juli 10	30.47	15	45.89	358
20	30.62	1	49.47	364
29*)	30.63	14	53.11	360
Aug. 8	[31] 30.49	27	56.71	350
18	30.22	39	60.21	330
28	29.83	51	63.51	305
Sept. 7	29.32	62	66.56	274
17	28.70	71	69.30	235
27	27.99	78	71.65	191
Okt. 7	27.21	83	73.56	143
17	26.38	86	74.99	91
27	25.52	87	75.90	35
Nov. 6	24.65	86	76.25	22
16	23.79	82	76.03	81
26	22.97	75	75.22	137
Dez. 6	22.22	67	73.85	191
16	21.55	57	71.94	240
26	20.98	44	69.54	280
36	20.54		66.74	
Mittl. Ort	27.14		54.08	
sec δ, tg δ	3.793		+3.659	

*) Bei Stern 767), 768) und 770) lies Juli 30

Tag	769) α Indi AR.	Δ	Dekl.	Δ	771) β Delphini AR.	Δ	Dekl.	Δ
1930	20h 32m		−47° 32′		20h 34m		+14° 20′	
Jan. 1	36.665	48	29.23	172	14.119	19	55.36	177
11	36.713	99	27.51	186	14.138	55	53.59	180
21	36.812	151	25.65	196	14.193	89	51.79	175
31	36.963	198	23.69	202	14.282	122	50.04	163
Feb. 10	37.161	243	21.67	204	14.404	154	48.41	143
20	37.404	283	19.63	202	14.558	185	46.98	117
März 2	37.687	321	17.61	197	14.743	214	45.81	85
12	38.008	354	15.64	188	14.957	239	44.96	48
22	38.362	383	13.76	176	15.196	263	44.48	7
Apr. 1	38.745	407	12.00	161	15.459	283	44.41	34
11	39.152	427	10.39	142	15.742	298	44.75	74
21	39.579	440	8.97	120	16.040	308	45.49	113
Mai 1	40.019	444	7.77	95	16.348	312	46.62	147
11	40.463	442	6.82	67	16.660	310	48.09	177
21	40.905	430	6.15	38	16.970	300	49.86	202
31	41.335	409	5.77	7	17.270	283	51.88	219
Juni 10	41.744	379	5.70	25	17.553	260	54.07	231
20	42.123	339	5.95	54	17.813	230	56.38	236
30	42.462	291	6.49	83	18.043	194	58.74	235
Juli 10	42.753	236	7.32	109	18.237	154	61.09	229
20	42.989	175	8.41	131	18.391	111	63.38	217
30	43.164	111	9.72	149	18.502	66	65.55	201
Aug. 8	[31] 43.275	46	11.21	159	[31] 18.568	21	67.56	182
18	43.321	18	12.80	164	18.589	22	69.38	159
28	43.303	78	14.44	162	18.567	62	70.97	134
Sept. 7	43.225	130	16.06	153	18.505	98	72.31	108
17	43.095	175	17.59	136	18.407	125	73.39	81
27	42.920	208	18.95	114	18.282	146	74.20	52
Okt. 7	42.712	227	20.09	87	18.136	157	74.72	23
17	42.485	234	20.96	55	17.979	161	74.95	6
27	42.251	228	21.51	21	17.818	156	74.89	34
Nov. 6	42.023	208	21.72	15	17.662	142	74.55	63
16	41.815	178	21.57	50	17.520	123	73.92	90
26	41.637	137	21.07	83	17.397	97	73.02	114
Dez. 6	41.500	90	20.24	114	17.300	67	71.88	137
16	41.410	39	19.10	140	17.233	35	70.51	156
26	41.371	14	17.70	162	17.198	0	68.95	168
36	41.385		16.08		17.198		67.27	
Mittl. Ort	38.986		13.34		15.982		62.02	
sec δ, tg δ	1.481		−1.093		1.032		+0.256	

Tag	773) υ Capricorni AR.	Δ	Dekl.	Δ	774) α Delphini AR.	Δ	Dekl.	Δ
1930	20h 36m		−18° 23′		20h 36m		+15° 39′	
Jan. 1	2.195	43	22.91	2	21.332	16	44.09	181
11	2.238	79	22.89	10	21.348	51	42.28	185
21	2.317	113	22.79	21	21.399	86	40.43	182
31	2.430	145	22.58	32	21.485	119	38.61	170
Feb. 10	2.575	176	22.26	44	21.604	152	36.91	150
20	2.751	205	21.82	58	21.756	182	35.41	123
März 2	2.956	231	21.24	73	21.938	212	34.18	91
12	3.187	257	20.51	88	22.150	239	33.27	53
22	3.444	280	19.63	101	22.389	262	32.74	12
Apr. 1	3.724	299	18.62	114	22.651	283	32.62	30
11	4.023	314	17.48	124	22.934	298	32.92	72
21	4.337	326	16.24	131	23.232	309	33.64	111
Mai 1	4.663	331	14.93	134	23.541	313	34.75	147
11	4.994	331	13.59	133	23.854	311	36.22	178
21	5.325	323	12.26	128	24.165	301	38.00	203
31	5.648	309	10.98	119	24.466	284	40.03	222
Juni 10	5.957	288	9.79	107	24.750	262	42.25	235
20	6.245	258	8.72	92	25.012	231	44.60	241
30	6.503	223	7.80	74	25.243	195	47.01	241
Juli 10	6.726	182	7.06	55	25.438	156	49.42	236
20	6.908	139	6.51	36	25.594	112	51.78	224
30	7.047	91	6.15	17	25.706	67	54.02	208
Aug. 8	7.138	44	5.98	0	25.773	22	56.10	190
18	7.182	2	5.98	16	25.795	22	58.00	166
28	7.180	46	6.14	28	25.773	63	59.66	141
Sept. 7	7.134	84	6.42	38	25.710	97	61.07	115
17	7.050	114	6.80	45	25.613	125	62.22	86
27	6.936	136	7.25	48	25.488	147	63.08	57
Okt. 7	6.800	150	7.73	47	25.341	159	63.65	27
17	6.650	153	8.20	46	25.182	162	63.92	2
27	6.497	147	8.66	42	25.020	157	63.90	32
Nov. 6	6.350	132	9.08	35	24.863	145	63.58	62
16	6.218	111	9.43	29	24.718	125	62.96	90
26	6.107	82	9.72	23	24.593	100	62.06	116
Dez. 6	6.025	50	9.95	15	24.493	71	60.90	140
16	5.975	14	10.10	8	24.422	38	59.50	159
26	5.961	22	10.18	1	24.384	4	57.91	173
36	5.983		10.19		24.380		56.18	
Mittl. Ort	4.039		10.67		23.200		50.47	
sec δ, tg δ	1.054		−0.332		1.039		+0.280	

Scheinbare Sternörter 1930

Tag	775) β Pavonis AR.		775) β Pavonis Dekl.		777) α Cygni AR.		777) α Cygni Dekl.		780) ε Cygni AR.		780) ε Cygni Dekl.		783) η Cephei AR.		783) η Cephei Dekl.	
1930	$20^h\,38^m$		$-66°\,27'$		$20^h\,39^m$		$+45°\,1'$		$20^h\,43^m$		$+33°\,42'$		$20^h\,43^m$		$+61°\,33'$	
Jan. 1	36.96	1	41.22	264	0.341	52	44.37	280	20.626	21	22.88	246	48.91	16	60.14	294
11	36.97	10	38.58	282	0.289	3	41.57	295	20.605	19	20.42	259	48.75	8	57.20	318
21	37.07	19	35.76	291	0.286	49	38.62	301	20.624	60	17.83	260	48.67	0	54.02	328
31	37.26	27	32.85	294	0.335	100	35.61	293	20.684	102	15.23	252	48.67	8	50.74	327
Feb. 10	37.53	35	29.91	289	0.435	150	32.68	275	20.786	143	12.71	234	48.75	16	47.47	312
20	37.88	43	27.02	278	0.585	198	29.93	245	20.929	182	10.37	204	48.91	24	44.35	285
März 2	38.31	50	24.24	262	0.783	243	27.48	205	21.111	218	8.33	167	49.15	31	41.50	247
12	38.81	55	21.62	240	1.026	283	25.43	157	21.329	252	6.66	123	49.46	37	39.03	198
22	39.36	60	19.22	214	1.309	318	23.86	103	21.581	282	5.43	72	49.83	43	37.05	143
Apr. 1	39.96	64	17.08	183	1.627	345	22.83	45	21.863	307	4.71	20	50.26	47	35.62	82
11	40.60	68	15.25	150	1.972	365	22.38	14	22.170	325	4.51	34	50.73	49	34.80	19
21	41.28	69	13.75	112	2.337	377	22.52	73	22.495	336	4.85	87	51.22	51	34.61	44
Mai 1	41.97	70	12.63	72	2.714	378	23.25	128	22.831	341	5.72	136	51.73	51	35.05	106
11	42.67	69	11.91	31	3.092	370	24.53	180	23.172	338	7.08	182	52.24	50	36.11	164
21	43.36	67	11.60	11	3.462	354	26.33	225	23.510	325	8.90	220	52.74	47	37.75	215
31	44.03	64	11.71	53	3.816	327	28.58	263	23.835	305	11.10	253	53.21	42	39.90	260
Juni 10	44.67	58	12.24	93	4.143	292	31.21	293	24.140	277	13.63	277	53.63	37	42.50	299
20	45.25	52	13.17	132	4.435	251	34.14	316	24.417	242	16.40	295	54.00	31	45.49	328
30	45.77	44	14.49	166	4.686	202	37.30	330	24.659	202	19.35	304	54.31	24	48.77	349
Juli 10	46.21	36	16.15	194	4.888	148	40.60	336	24.861	157	22.39	307	54.55	16	52.26	361
20	46.57	26	18.09	218	5.036	93	43.96	334	25.018	107	25.46	302	54.71	8	55.87	365
30	46.83	15	20.27	234	5.129	34	47.30	325	25.125	57	28.48	291	54.79	1	59.52	361
Aug. 8	46.98	5	22.61	241	5.163	22	50.55	309	25.182	7	31.39	273	54.80	8	63.13	348
18	47.03	6	25.02	240	5.141	76	53.64	286	25.189	41	34.12	250	54.72	15	66.61	330
28	46.97	15	27.42	229	5.065	127	56.50	258	25.148	86	36.62	223	54.57	23	69.91	303
Sept. 7	46.82	25	29.71	210	4.938	171	59.08	224	25.062	125	38.85	191	54.34	29	72.94	271
17	46.57	32	31.81	182	4.767	207	61.32	186	24.937	157	40.76	156	54.05	34	75.65	232
27	46.25	38	33.63	146	4.560	235	63.18	144	24.780	182	42.32	118	53.71	38	77.97	189
Okt. 7	45.87	42	35.09	104	4.325	254	64.62	99	24.598	198	43.50	78	53.33	41	79.86	141
17	45.45	44	36.13	57	4.071	262	65.61	51	24.400	204	44.28	36	52.92	43	81.27	89
27	45.01	44	36.70	6	3.809	260	66.12	1	24.196	202	44.64	8	52.49	44	82.16	35
Nov. 6	44.57	41	36.76	46	3.549	248	66.13	49	23.994	191	44.56	52	52.05	43	82.51	22
16	44.16	37	36.30	96	3.301	229	65.64	100	23.803	173	44.04	95	51.62	40	82.29	79
26	43.79	30	35.34	143	3.072	200	64.64	148	23.630	148	43.09	136	51.22	37	81.50	134
Dez. 6	43.49	23	33.91	186	2.872	166	63.16	192	23.482	118	41.73	174	50.85	32	80.16	187
16	43.26	14	32.05	223	2.706	125	61.24	230	23.364	83	39.99	206	50.53	26	78.29	233
26	43.12	5	29.82	252	2.581	79	58.94	262	23.281	44	37.93	232	50.27	20	75.96	273
36	43.07		27.30		2.502		56.32		23.237		35.61		50.07		73.23	
Mittl. Ort	40.36		23.59		2.700		45.82		22.700		25.87		52.13		59.13	
sec δ, tg δ	2.504		−2.295		1.415		+1.001		1.202		+0.667		2.100		+1.847	

Tag	781) ε Aquarii AR.		781) ε Aquarii Dekl.		784) λ Cygni AR.		784) λ Cygni Dekl.		785) β Indi AR.		785) β Indi Dekl.		786) 32 Vulpeculae AR.		786) 32 Vulpeculae Dekl.	
1930	20h 43m	Δ	−9° 45′	Δ	20h 44m	Δ	+36° 13′	Δ	20h 49m	Δ	−58° 42′	Δ	20h 51m	Δ	+27° 47′	Δ
Jan. 1	51.502	32	21.92	47	38.740	30	55.32	254	18.396	4	88.62	227	32.600	17	22.20	223
11	51.534	65	22.39	41	38.710	12	52.78	268	18.400	74	86.35	245	32.583	20	19.97	233
21	51.599	98	22.80	31	38.722	55	50.10	270	18.474	141	83.90	258	32.603	57	17.64	235
31	51.697	130	23.11	19	38.777	98	47.40	263	18.615	206	81.32	265	32.660	96	15.29	226
Feb. 10	51.827	159	23.30	5	38.875	140	44.77	244	18.821	267	78.67	265	32.756	134	13.03	209
20	51.986	188	23.35	13	39.015	182	42.33	216	19.088	323	76.02	261	32.890	169	10.94	181
März 2	52.174	215	23.22	34	39.197	220	40.17	177	19.411	375	73.41	250	33.059	204	9.13	146
12	52.389	240	22.88	55	39.417	255	38.40	133	19.786	421	70.91	236	33.263	236	7.67	105
22	52.629	263	22.33	77	39.672	286	37.07	82	20.207	463	68.55	216	33.499	265	6.62	58
Apr. 1	52.892	284	21.56	97	39.958	311	36.25	28	20.670	497	66.39	193	33.764	290	6.04	9
11	53.176	300	20.59	116	40.269	331	35.97	27	21.167	525	64.46	165	34.054	309	5.95	41
21	53.476	312	19.43	131	40.600	343	36.24	81	21.692	544	62.81	134	34.363	322	6.36	90
Mai 1	53.788	319	18.12	144	40.943	347	37.05	133	22.236	555	61.47	99	34.685	329	7.26	136
11	54.107	320	16.68	151	41.290	343	38.38	179	22.791	552	60.48	64	35.014	327	8.62	176
21	54.427	313	15.17	154	41.633	330	40.17	220	23.343	541	59.84	25	35.341	318	10.38	213
31	54.740	300	13.63	152	41.963	310	42.37	254	23.884	518	59.59	14	35.659	301	12.51	241
Juni 10	55.040	280	12.11	147	42.273	281	44.91	280	24.402	482	59.73	53	35.960	277	14.92	263
20	55.320	252	10.64	136	42.554	245	47.71	299	24.884	435	60.26	89	36.237	246	17.55	278
30	55.572	219	9.28	123	42.799	203	50.70	310	25.319	376	61.15	124	36.483	207	20.33	286
Juli 10	55.791	181	8.05	107	43.002	157	53.80	314	25.695	309	62.39	154	36.690	166	23.19	286
20	55.972	138	6.98	89	43.159	106	56.94	310	26.004	234	63.93	180	36.856	120	26.05	281
30	56.110	93	6.09	71	43.265	55	60.04	299	26.238	154	65.73	199	36.976	71	28.86	268
Aug. 8	56.203	47	5.38	51	43.320	4	63.03	282	26.392	71	67.72	211	37.047	24	31.54	251
18	56.250	2	4.87	33	43.324	46	65.85	260	26.463	12	69.83	215	37.071	22	34.05	229
28	56.252	39	4.54	16	43.278	92	68.45	232	26.451	90	71.98	210	37.049	66	36.34	203
Sept. 7	56.213	75	4.38	1	43.186	131	70.77	200	26.361	161	74.08	198	36.983	104	38.37	173
17	56.138	106	4.37	12	43.055	165	72.77	165	26.200	222	76.06	176	36.879	136	40.10	141
27	56.032	128	4.49	23	42.890	191	74.42	126	25.978	271	77.82	148	36.743	160	41.51	105
Okt. 7	55.904	141	4.72	32	42.699	207	75.68	84	25.707	303	79.30	112	36.583	176	42.56	68
17	55.763	146	5.04	38	42.492	214	76.52	41	25.404	319	80.42	72	36.407	183	43.24	30
27	55.617	141	5.42	43	42.278	213	76.93	5	25.085	319	81.14	27	36.224	182	43.54	9
Nov. 6	55.476	129	5.85	46	42.065	202	76.88	50	24.766	301	81.41	18	36.042	172	43.45	49
16	55.347	109	6.31	49	41.863	184	76.38	95	24.465	269	81.23	64	35.870	156	42.96	87
26	55.238	84	6.80	50	41.679	159	75.43	137	24.196	224	80.59	108	35.714	133	42.09	124
Dez. 6	55.154	54	7.30	51	41.520	128	74.06	177	23.972	168	79.51	148	35.581	105	40.85	158
16	55.100	21	7.81	50	41.392	93	72.29	211	23.804	105	78.03	184	35.476	73	39.27	187
26	55.079	12	8.31	47	41.299	54	70.18	239	23.699	38	76.19	213	35.403	38	37.40	209
36	55.091		8.78		41.245		67.79		23.661		74.06		35.365		35.31	
Mittl. Ort	53.283		11.03		40.860		57.82		21.055		70.82		34.559		25.87	
sec δ, tg δ	1.015		−0.172		1.240		+0.733		1.926		−1.646		1.130		+0.527	

Tag	788) ν Cygni AR.		788) ν Cygni Dekl.		790) ζ Microscopii AR.		790) ζ Microscopii Dekl.		793) 61 Cygni pr.[1] AR.		793) 61 Cygni pr.[1] Dekl.		794) ν Aquarii AR.		794) ν Aquarii Dekl.	
1930	$20^h 54^m$		+40° 53′		$20^h 58^m$		−38° 54′		$21^h 3^m$		+38° 23′		$21^h 5^m$		−11° 39′	
Jan. 1	31.547	54	47.31	260	27.918	18	38.08	120	43.308	42	74.24	239	45.292	13	33.36	33
11	31.493	10	44.71	277	27.936	61	36.88	138	43.266	1	71.85	256	45.305	45	33.69	24
21	31.483	36	41.94	282	27.997	103	35.50	152	43.265	43	69.29	262	45.350	77	33.93	15
31	31.519	83	39.12	278	28.100	144	33.98	164	43.308	88	66.67	258	45.427	108	34.08	1
Feb. 10	31.602	129	36.34	262	28.244	182	32.34	172	43.396	131	64.09	242	45.535	139	34.09	15
20	31.731	174	33.72	235	28.426	219	30.62	179	43.527	175	61.67	216	45.674	169	33.94	31
März 2	31.905	217	31.37	198	28.645	254	28.83	182	43.702	217	59.51	180	45.843	197	33.63	51
12	32.122	257	29.39	154	28.899	287	27.01	183	43.919	255	57.71	137	46.040	225	33.12	71
22	32.379	291	27.85	102	29.186	316	25.18	180	44.174	289	56.34	87	46.265	251	32.41	92
Apr. 1	32.670	321	26.83	47	29.502	342	23.38	174	44.463	319	55.47	34	46.516	275	31.49	110
11	32.991	343	26.36	10	29.844	365	21.64	165	44.782	342	55.13	22	46.791	294	30.39	128
21	33.334	358	26.46	66	30.209	381	19.99	151	45.124	358	55.35	77	47.085	310	29.11	142
Mai 1	33.692	363	27.12	120	30.590	392	18.48	135	45.482	365	56.12	129	47.395	320	27.69	152
11	34.055	361	28.32	170	30.982	395	17.13	114	45.847	363	57.41	178	47.715	325	26.17	159
21	34.416	349	30.02	215	31.377	390	15.99	90	46.210	354	59.19	221	48.040	322	24.58	160
31	34.765	327	32.17	252	31.767	377	15.09	64	46.564	335	61.40	257	48.362	311	22.98	156
Juni 10	35.092	298	34.69	282	32.144	355	14.45	36	46.899	307	63.97	288	48.673	294	21.42	149
20	35.390	260	37.51	305	32.499	324	14.09	7	47.206	273	66.85	309	48.967	270	19.93	137
30	35.650	217	40.56	319	32.823	285	14.02	21	47.479	231	69.94	322	49.237	238	18.56	122
Juli 10	35.867	169	43.75	326	33.108	240	14.23	49	47.710	184	73.16	330	49.475	201	17.34	104
20	36.036	116	47.01	326	33.348	188	14.72	75	47.894	135	76.46	327	49.676	160	16.30	85
30	36.152	61	50.27	317	33.536	132	15.47	96	48.029	82	79.73	320	49.836	115	15.45	65
Aug. 8	[5] 36.213	8	53.44	303	[6] 33.668	76	16.43	115	[3] 48.111	29	82.93	305	[3] 49.951	69	14.80	45
18	36.221	45	56.47	281	33.744	19	17.58	126	48.140	22	85.98	284	50.020	24	14.35	25
28	36.176	93	59.28	255	33.763	35	18.84	133	48.118	70	88.82	258	50.044	19	14.10	7
Sept. 7	36.083	136	61.83	224	33.728	84	20.17	133	48.048	112	91.40	228	50.025	58	14.03	8
17	35.947	173	64.07	188	33.644	125	21.50	126	47.936	147	93.68	192	49.967	91	14.11	21
27	35.774	202	65.95	149	33.519	158	22.76	115	47.789	176	95.60	154	49.876	115	14.32	32
Okt. 7	35.572	221	67.44	105	33.361	180	23.91	99	47.613	196	97.14	113	49.761	133	14.64	39
17	35.351	231	68.49	60	33.181	190	24.90	75	47.417	206	98.27	69	49.628	140	15.03	44
27	35.120	232	69.09	13	32.991	189	25.65	50	47.211	207	98.96	23	49.488	140	15.47	47
Nov. 6	34.888	224	69.22	35	32.802	178	26.15	22	47.004	201	99.19	23	49.348	131	15.94	48
16	34.664	207	68.87	84	32.624	156	26.37	7	46.803	186	98.96	70	49.217	115	16.42	48
26	34.457	184	68.03	129	32.468	126	26.30	36	46.617	163	98.26	113	49.102	93	16.90	46
Dez. 6	34.273	154	66.74	173	32.342	91	25.94	63	46.454	136	97.13	155	49.009	66	17.36	43
16	34.119	118	65.01	210	32.251	51	25.31	87	46.318	102	95.58	192	48.943	37	17.79	40
26	34.001	79	62.91	242	32.200	8	24.44	110	46.216	65	93.66	222	48.906	6	18.19	35
36	33.922		60.49		32.192		23.34		46.151		91.44		48.900		18.54	
Mittl. Ort	33.753		48.51		29.871		22.05		45.441		75.60		46.994		21.96	
sec δ, tg δ	1.323		+0.866		1.285		−0.807		1.276		+0.793		1.021		−0.206	

[1]) Die jährliche Parallaxe (0.″30) ist bereits berücksichtigt.

Tag	795) Br. 2777 AR.		795) Br. 2777 Dekl.		797) ζ Cygni AR.		797) ζ Cygni Dekl.		800) α Equulei AR.		800) α Equulei Dekl.		803) α Cephei AR.		803) α Cephei Dekl.	
1930	21h 6m		+77° 50′		21h 9m		+29° 56′		21h 12m		+4° 57′		21h 16m		+62° 16′	
Jan. 1	49.53 s	61	38.80″	268	55.416 s	39	17.72″	219	17.812 s	3	19.10″	117	51.42 s	22	82.16″	267
11	48.92	43	36.12	302	55.377	3	15.53	232	17.809	28	17.93	117	51.20	14	79.49	298
21	48.49	25	33.10	323	55.374	36	13.21	237	17.837	59	16.76	113	51.06	7	76.51	317
31	48.24	6	29.87	333	55.410	74	10.84	232	17.896	90	15.63	101	50.99	1	73.34	324
Feb. 10	48.18	14	26.54	329	55.484	112	8.52	217	17.986	121	14.62	85	51.00	9	70.10	317
20	48.32	33	23.25	312	55.596	151	6.35	193	18.107	152	13.77	63	51.09	18	66.93	299
März 2	48.65	51	20.13	283	55.747	189	4.42	159	18.259	182	13.14	37	51.27	26	63.94	268
12	49.16	68	17.30	242	55.936	223	2.83	120	18.441	210	12.77	7	51.53	33	61.26	226
22	49.84	81	14.88	192	56.159	255	1.63	74	18.651	237	12.70	25	51.86	40	59.00	177
Apr. 1	50.65	92	12.96	137	56.414	284	0.89	25	18.888	262	12.95	58	52.26	45	57.23	119
11	51.57	99	11.59	76	56.698	307	0.64	26	19.150	283	13.53	91	52.71	48	56.04	59
21	52.56	103	10.83	13	57.005	324	0.90	75	19.433	299	14.44	120	53.19	51	55.45	3
Mai 1	53.59	104	10.70	50	57.329	333	1.65	123	19.732	310	15.64	147	53.70	53	55.48	65
11	54.63	102	11.20	110	57.662	335	2.88	167	20.042	315	17.11	170	54.23	53	56.13	125
21	55.65	95	12.30	167	57.997	329	4.55	204	20.357	312	18.81	187	54.76	50	57.38	180
31	56.60	87	13.97	218	58.326	314	6.59	237	20.669	301	20.68	199	55.26	47	59.18	229
Juni 10	57.47	75	16.15	263	58.640	292	8.96	262	20.970	285	22.67	205	55.73	43	61.47	273
20	58.22	63	18.78	300	58.932	262	11.58	279	21.255	260	24.72	205	56.16	37	64.20	307
30	58.85	47	21.78	329	59.194	226	14.37	291	21.515	230	26.77	201	56.53	31	67.27	335
Juli 10	59.32	31	25.07	351	59.420	185	17.28	294	21.745	193	28.78	192	56.84	23	70.62	353
20	59.63	15	28.58	364	59.605	139	20.22	290	21.938	153	30.70	178	57.07	15	74.15	365
30	59.78	2	32.22	369	59.744	90	23.12	282	22.091	110	32.48	162	57.22	7	77.80	367
Aug. 8*)	59.76	20	35.91	366	59.834	42	25.94	266	22.201	65	34.10	142	57.29	1	81.47	361
18	59.56	36	39.57	355	59.876	6	28.60	246	22.266	21	35.52	121	57.28	9	85.08	348
28	59.20	51	43.12	338	59.870	50	31.06	221	22.287	20	36.73	99	57.19	17	88.56	328
Sept. 7	58.69	65	46.50	312	59.820	90	33.27	193	22.267	58	37.72	76	57.02	23	91.84	301
17	58.04	78	49.62	280	59.730	125	35.20	160	22.209	89	38.48	54	56.79	29	94.85	267
27	57.26	88	52.42	242	59.605	151	36.80	125	22.120	114	39.02	32	56.50	35	97.52	228
Okt. 7	56.38	97	54.84	198	59.454	171	38.05	89	22.006	131	39.34	10	56.15	38	99.80	184
17	55.41	104	56.82	149	59.283	181	38.94	50	21.875	139	39.44	10	55.77	41	101.64	134
27	54.37	107	58.31	95	59.102	184	39.44	9	21.736	140	39.34	29	55.36	43	102.98	81
Nov. 6	53.30	109	59.26	38	58.918	177	39.53	31	21.596	133	39.05	48	54.93	43	103.79	25
16	52.21	106	59.64	21	58.741	164	39.22	72	21.463	119	38.57	65	54.50	42	104.04	33
26	51.15	101	59.43	80	58.577	145	38.50	110	21.344	100	37.92	81	54.08	39	103.71	90
Dez. 6	50.14	94	58.63	138	58.432	120	37.40	146	21.244	76	37.11	94	53.69	36	102.81	145
16	49.20	83	57.25	193	58.312	91	35.94	178	21.168	50	36.17	105	53.33	31	101.36	196
26	48.37	70	55.32	240	58.221	59	34.16	204	21.118	20	35.12	112	53.02	26	99.40	241
36	47.67		52.92		58.162		32.12		21.098		34.00		52.76		96.99	
Mittl. Ort	55.95		34.53		57.356		20.18		19.512		26.89		54.60		78.70	
sec δ, tg δ	4.748		+4.642		1.154		+0.576		1.004		+0.087		2.150		+1.904	

*) Bei Stern 797), 800) und 803) lies August 9

Scheinbare Sternörter 1930

Tag	804) ι Pegasi				805) γ Pavonis				806) ζ Capricorni				809) β Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	$21^h\ 18^m$		$+19°\ 29'$		$21^h\ 20^m$		$-65°\ 40'$		$21^h\ 22^m$		$-22°\ 42'$		$21^h\ 27^m$		$+70°\ 14'$	
Jan. 1	$49^s.135$	27	$70''.40$	177	$37^s.88$	10	$83''.86$	249	$38^s.784$	2	$69''.88$	29	$41^s.76$	37	$76''.64$	255
11	49.108	6	68.63	185	37.78	0	81.37	275	38.782	32	69.59	43	41.39	27	74.09	290
21	49.114	39	66.78	187	37.78	8	78.62	295	38.814	65	69.16	58	41.12	17	71.19	315
31	49.153	73	64.91	180	37.86	16	75.67	307	38.879	98	68.58	72	40.95	6	68.04	327
Feb. 10	49.226	108	63.11	164	38.02	24	72.60	312	38.977	131	67.86	87	40.89	7	64.77	327
20	49.334	141	61.47	142	38.26	32	69.48	309	39.108	162	66.99	103	40.96	18	61.50	313
März 2	49.475	175	60.05	112	38.58	39	66.39	302	39.270	194	65.96	117	41.14	30	58.37	286
12	49.650	207	58.93	75	38.97	45	63.37	286	39.464	224	64.79	131	41.44	40	55.51	249
22	49.857	238	58.18	36	39.42	51	60.51	266	39.688	253	63.48	142	41.84	49	53.02	201
Apr. 1	50.095	265	57.82	7	39.93	56	57.85	241	39.941	279	62.06	152	42.33	57	51.01	147
11	50.360	288	57.89	50	40.49	61	55.44	210	40.220	303	60.54	160	42.90	63	49.54	88
21	50.648	305	58.39	93	41.10	64	53.34	175	40.523	322	58.94	163	43.53	67	48.66	25
Mai 1	50.953	317	59.32	132	41.74	67	51.59	137	40.845	335	57.31	162	44.20	69	48.41	37
11	51.270	321	60.64	168	42.41	67	50.22	95	41.180	343	55.69	158	44.89	68	48.78	99
21	51.591	319	62.32	198	43.08	67	49.27	52	41.523	343	54.11	149	45.57	66	49.77	156
31	51.910	308	64.30	223	43.75	65	48.75	7	41.866	335	52.62	135	46.23	62	51.33	209
Juni 10	52.218	289	66.53	241	44.40	61	48.68	38	42.201	320	51.27	118	46.85	56	53.42	255
20	52.507	264	68.94	252	45.01	56	49.06	82	42.521	297	50.09	98	47.41	48	55.97	294
30	52.771	231	71.46	258	45.57	50	49.88	122	42.818	266	49.11	76	47.89	40	58.91	327
Juli 10	53.002	194	74.04	257	46.07	42	51.10	159	43.084	229	48.35	52	48.29	30	62.18	350
20	53.196	152	76.61	250	46.49	34	52.69	191	43.313	187	47.83	28	48.59	19	65.68	365
30	53.348	107	79.11	238	46.83	24	54.60	216	43.500	140	47.55	4	48.78	9	69.33	372
Aug. 9	53.455	61	81.49	221	47.07	14	56.76	233	43.640	92	47.51	18	48.87	2	73.05	372
18	^{12}53.516	16	83.70	201	^{12}47.21	4	59.09	243	^{12}43.732	44	47.69	36	^{14}48.85	12	76.77	363
28	53.532	26	85.71	177	47.25	7	61.52	242	43.776	3	48.05	53	48.73	23	80.40	347
Sept. 7	53.506	64	87.48	150	47.18	16	63.94	233	43.773	46	48.58	66	48.50	32	83.87	323
17	53.442	98	88.98	122	47.02	24	66.27	213	43.727	82	49.24	72	48.18	41	87.10	293
27	53.344	124	90.20	92	46.78	31	68.40	185	43.645	112	49.96	75	47.77	48	90.03	256
Okt. 7	53.220	143	91.12	61	46.47	37	70.25	148	43.533	133	50.71	75	47.29	53	92.59	214
17	53.077	153	91.73	30	46.10	41	71.73	104	43.400	145	51.46	69	46.76	58	94.73	165
27	52.924	156	92.03	3	45.69	42	72.77	56	43.255	147	52.15	61	46.18	61	96.38	112
Nov. 6	52.768	150	92.00	35	45.27	41	73.33	5	43.108	142	52.76	49	45.57	63	97.50	56
16	52.618	139	91.65	66	44.86	39	73.38	48	42.966	127	53.25	37	44.94	62	98.06	3
26	52.479	121	90.99	96	44.47	34	72.90	100	42.839	107	53.62	23	44.32	59	98.03	62
Dez. 6	52.358	99	90.03	123	44.13	29	71.90	148	42.732	82	53.85	8	43.73	55	97.41	121
16	52.259	72	88.80	147	43.84	22	70.42	193	42.650	52	53.93	7	43.18	50	96.20	176
26	52.187	43	87.33	165	43.62	14	68.49	230	42.598	20	53.86	21	42.68	42	94.44	226
36	52.144		85.68		43.48		66.19		42.578		53.65		42.26		92.18	
Mittl. Ort	50.914		74.75		40.64		63.84		40.442		56.03		45.87		71.45	
sec δ, tg δ	1.061		+0.354		2.429		−2.213		1.084		−0.419		2.960		+2.786	

Tag	808) β Aquarii AR.		808) β Aquarii Dekl.		810) ν Octantis AR.		810) ν Octantis Dekl.		811) 74 Cygni AR.		811) 74 Cygni Dekl.		815) ε Pegasi AR.		815) ε Pegasi Dekl.	
1930	21h 27m		−5° 52′		21h 33m		−77° 41′		21h 34m		+40° 5′		21h 40m		+9° 32′	
Jan. 1	50.899	8	58.14	60	41.22	33	90.73	285	6.424	90	54.86	226	43.247	30	65.48	127
11	50.891	21	58.74	54	40.89	17	87.88	314	6.334	52	52.60	251	43.217	2	64.21	131
21	50.912	51	59.28	44	40.72	0	84.74	337	6.282	9	50.09	263	43.215	28	62.90	128
31	50.963	82	59.72	32	40.72	17	81.37	349	6.273	34	47.46	265	43.243	58	61.62	120
Feb. 10	51.045	112	60.04	15	40.89	33	77.88	352	6.307	79	44.81	256	43.301	90	60.42	106
20	51.157	142	60.19	4	41.22	49	74.36	349	6.386	126	42.25	237	43.391	122	59.36	86
März 2	51.299	172	60.15	25	41.71	63	70.87	336	6.512	171	39.88	207	43.513	154	58.50	59
12	51.471	202	59.90	50	42.34	76	67.51	318	6.683	216	37.81	169	43.667	186	57.91	29
22	51.673	230	59.40	74	43.10	88	64.33	291	6.899	256	36.12	123	43.853	217	57.62	5
Apr. 1	51.903	256	58.66	98	43.98	99	61.42	260	7.155	292	34.89	73	44.070	246	57.67	40
11	52.159	279	57.68	121	44.97	108	58.82	224	7.447	323	34.16	18	44.316	271	58.07	76
21	52.438	299	56.47	141	46.05	114	56.58	182	7.770	346	33.98	36	44.587	291	58.83	109
Mai 1	52.737	311	55.06	157	47.19	118	54.76	137	8.116	360	34.34	90	44.878	307	59.92	141
11	53.048	319	53.49	170	48.37	120	53.39	89	8.476	367	35.24	140	45.185	316	61.33	167
21	53.367	320	51.79	177	49.57	119	52.50	40	8.843	363	36.64	187	45.501	318	63.00	191
31	53.687	313	50.02	180	50.76	117	52.10	11	9.206	349	38.51	228	45.819	311	64.91	207
Juni 10	54.000	299	48.22	176	51.93	110	52.21	61	9.555	328	40.79	261	46.130	298	66.98	218
20	54.299	276	46.46	169	53.03	102	52.82	109	9.883	298	43.40	289	46.428	277	69.16	224
30	54.575	248	44.77	158	54.05	91	53.91	154	10.181	259	46.29	307	46.705	248	71.40	223
Juli 10	54.823	214	43.19	142	54.96	77	55.45	194	10.440	215	49.36	320	46.953	215	73.63	217
20	55.037	174	41.77	125	55.73	61	57.39	228	10.655	167	52.56	324	47.168	176	75.80	207
30	55.211	131	40.52	104	56.34	44	59.67	254	10.822	114	55.80	322	47.344	134	77.87	192
Aug. 9	55.342	87	39.48	83	56.78	25	62.21	273	10.936	61	59.02	312	47.478	90	79.79	174
18	14 55.429	42	38.65	62	15 57.03	6	64.94	281	15 10.997	9	62.14	296	17 47.568	46	81.53	154
28	55.471	1	38.03	42	57.09	13	67.75	280	11.006	41	65.10	274	47.614	4	83.07	131
Sept. 7	55.470	39	37.61	23	56.96	31	70.55	267	10.965	87	67.84	248	47.618	35	84.38	107
17	55.431	73	37.38	5	56.65	48	73.22	244	10.878	128	70.32	216	47.583	69	85.45	83
27	55.358	100	37.33	11	56.17	63	75.66	211	10.750	160	72.48	180	47.514	97	86.28	59
Okt. 7	55.258	120	37.44	23	55.54	75	77.77	170	10.590	186	74.28	140	47.417	117	86.87	34
17	55.138	131	37.67	34	54.79	83	79.47	119	10.404	203	75.68	99	47.300	130	87.21	10
27	55.007	133	38.01	43	53.96	88	80.66	64	10.201	212	76.67	54	47.170	135	87.31	13
Nov. 6	54.874	129	38.44	50	53.08	89	81.30	5	9.989	212	77.21	7	47.035	134	87.18	35
16	54.745	117	38.94	56	52.19	86	81.35	55	9.777	205	77.28	40	46.901	125	86.83	57
26	54.628	100	39.50	59	51.33	79	80.80	114	9.572	189	76.88	87	46.776	111	86.26	76
Dez. 6	54.528	78	40.09	61	50.54	70	79.66	170	9.383	169	76.01	132	46.665	92	85.50	94
16	54.450	52	40.70	62	49.84	57	77.96	220	9.214	142	74.69	172	46.573	70	84.56	109
26	54.398	25	41.32	60	49.27	43	75.76	263	9.072	110	72.97	206	46.503	45	83.47	120
36	54.373		41.92		48.84		73.13		8.962		70.91		46.458		82.27	
Mittl. Ort	52.509		48.02		45.55		69.44		8.488		54.04		44.866		71.60	
sec δ, tg δ	1.005		−0.103		4.695		−4.587		1.307		+0.842		1.014		+0.168	

Tag	819) δ Capricorni				821) π² Cygni				822) γ Gruis				823) 16 Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	21ʰ 43ᵐ		−16° 26′		21ʰ 44ᵐ		+48° 58′		21ʰ 49ᵐ		−37° 41′		21ʰ 49ᵐ		+25° 35′	
Jan. 1	9.238	18	57.48	6	10.028	140	69.13	233	40.126	39	59.30	102	50.806	61	40.59	180
11	9.220	11	57.54	7	9.888	97	66.80	261	40.087	2	58.28	126	50.745	32	38.79	194
21	9.231	42	57.47	21	9.791	48	64.19	281	40.085	36	57.02	148	50.713	0	36.85	202
31	9.273	72	57.26	37	9.743	4	61.38	289	40.121	74	55.54	168	50.713	35	34.83	201
Feb. 10	9.345	103	56.89	53	9.747	59	58.49	285	40.195	112	53.86	184	50.748	71	32.82	190
20	9.448	135	56.36	71	9.806	115	55.64	269	40.307	150	52.02	197	50.819	108	30.92	171
März 2	9.583	166	55.65	89	9.921	171	52.95	242	40.457	188	50.05	207	50.927	146	29.21	145
12	9.749	197	54.76	108	10.092	224	50.53	206	40.645	226	47.98	214	51.073	183	27.76	110
22	9.946	228	53.68	125	10.316	274	48.47	160	40.871	261	45.84	216	51.256	218	26.66	71
Apr. 1	10.174	256	52.43	141	10.590	318	46.87	108	41.132	294	43.68	216	51.474	252	25.95	27
11	10.430	281	51.02	154	10.908	355	45.79	53	41.426	325	41.52	211	51.726	280	25.68	19
21	10.711	303	49.48	164	11.263	384	45.26	5	41.751	351	39.41	200	52.006	304	25.87	64
Mai 1	11.014	320	47.84	171	11.647	401	45.31	63	42.102	372	37.41	186	52.310	321	26.51	109
11	11.334	330	46.13	173	12.048	409	45.94	118	42.474	384	35.55	168	52.631	330	27.60	149
21	11.664	334	44.40	170	12.457	405	47.12	170	42.858	390	33.87	144	52.961	333	29.09	186
31	11.998	330	42.70	162	12.862	391	48.82	216	43.248	387	32.43	118	53.294	326	30.95	217
Juni 10	12.328	318	41.08	150	13.253	367	50.98	256	43.635	374	31.25	89	53.620	311	33.12	243
20	12.646	298	39.58	134	13.620	332	53.54	290	44.009	353	30.36	56	53.931	289	35.55	261
30	12.944	271	38.24	115	13.952	290	56.44	315	44.362	323	29.80	23	54.220	259	38.16	272
Juli 10	13.215	236	37.09	94	14.242	240	59.59	334	44.685	284	29.57	10	54.479	222	40.88	278
20	13.451	198	36.15	70	14.482	186	62.93	343	44.969	238	29.67	42	54.701	181	43.66	276
30	13.649	154	35.45	47	14.668	127	66.36	346	45.207	188	30.09	72	54.882	137	46.42	269
Aug. 9	13.803	109	34.98	23	14.795	67	69.82	340	45.395	134	30.81	97	55.019	91	49.11	257
18*)	18 13.912	62	34.75	2	18 14.862	8	73.22	329	45.529	78	31.78	118	55.110	44	51.68	239
28	13.974	17	34.73	18	14.870	49	76.51	310	19 45.607	23	32.96	134	19 55.154	0	54.07	217
Sept. 7	13.991	25	34.91	35	14.821	102	79.61	285	45.630	28	34.30	143	55.154	42	56.24	192
17	13.966	61	35.26	48	14.719	149	82.46	255	45.602	75	35.73	145	55.112	78	58.16	164
27	13.905	92	35.74	57	14.570	188	85.01	219	45.527	114	37.18	141	55.034	109	59.80	133
Okt. 7	13.813	114	36.31	62	14.382	220	87.20	179	45.413	144	38.59	130	54.925	131	61.13	100
17	13.699	129	36.93	64	14.162	243	88.99	134	45.269	164	39.89	112	54.794	147	62.13	66
27	13.570	134	37.57	63	13.919	257	90.33	86	45.105	175	41.01	90	54.647	156	62.79	31
Nov. 6	13.436	132	38.20	58	13.662	261	91.19	36	44.930	174	41.91	63	54.491	157	63.10	6
16	13.304	123	38.78	51	13.401	258	91.55	17	44.756	165	42.54	34	54.334	152	63.04	41
26	13.181	107	39.29	43	13.143	245	91.38	69	44.591	148	42.88	3	54.182	140	62.63	76
Dez. 6	13.074	86	39.72	34	12.898	225	90.69	119	44.443	123	42.91	28	54.042	123	61.87	110
16	12.988	62	40.06	23	12.673	197	89.50	166	44.320	93	42.63	58	53.919	102	60.77	139
26	12.926	35	40.29	11	12.476	162	87.84	208	44.227	60	42.05	87	53.817	76	59.38	165
36	12.891		40.40		12.314		85.76		44.167		41.18		53.741		57.73	
Mittl. Ort	10.775		44.84		12.325		65.98		41.722		41.93		52.546		42.34	
sec δ, tg δ	1.043		−0.295		1.524		+1.150		1.264		−0.773		1.109		+0.479	

*) Bei Stern 822) und 823) lies August 19

Tag	827) α Aquarii AR.		827) α Aquarii Dekl.		828) ι Aquarii AR.		828) ι Aquarii Dekl.		830) 20 Cephei AR.		830) 20 Cephei Dekl.		829) α Gruis AR.		829) α Gruis Dekl.	
1930	22h 2m		−0° 39′		22h 2m		−14° 12′		22h 2m		+62° 26′		22h 3m		−47° 17′	
Jan. 1	9.878	36	46.70	78	38.091	35	47.99	17	49.82	28	44.00	220	48.187	75	83.30	141
11	9.842	12	47.48	74	38.056	7	48.16	4	49.54	22	41.80	259	48.112	34	81.89	173
21	9.830	16	48.22	67	38.049	21	48.20	11	49.32	16	39.21	288	48.078	10	80.16	199
31	9.846	44	48.89	56	38.070	50	48.09	26	49.16	8	36.33	306	48.088	55	78.17	221
Feb. 10	9.890	73	49.45	40	38.120	80	47.83	44	49.08	0	33.27	312	48.143	101	75.96	238
20	9.963	105	49.85	21	38.200	112	47.39	63	49.08	9	30.15	304	48.244	146	73.58	251
März 2	10.068	137	50.06	2	38.312	144	46.76	83	49.17	17	27.11	285	48.390	191	71.07	259
12	10.205	168	50.04	28	38.456	176	45.93	102	49.34	25	24.26	253	48.581	235	68.48	262
22	10.373	201	49.76	55	38.632	208	44.91	122	49.59	33	21.73	212	48.816	277	65.86	259
Apr. 1	10.574	231	49.21	83	38.840	238	43.69	140	49.92	40	19.61	163	49.093	318	63.27	253
11	10.805	258	48.38	110	39.078	267	42.29	157	50.32	45	17.98	107	49.411	355	60.74	240
21	11.063	282	47.28	135	39.345	291	40.72	169	50.77	49	16.91	48	49.766	387	58.34	223
Mai 1	11.345	301	45.93	156	39.636	310	39.03	177	51.26	52	16.43	13	50.153	412	56.11	201
11	11.646	314	44.37	175	39.946	324	37.26	183	51.78	54	16.56	72	50.565	430	54.10	174
21	11.960	320	42.62	188	40.270	331	35.43	182	52.32	53	17.28	130	50.995	439	52.36	143
31	12.280	318	40.74	196	40.601	329	33.61	177	52.85	52	18.58	184	51.434	438	50.93	108
Juni 10	12.598	309	38.78	199	40.930	321	31.84	167	53.37	48	20.42	232	51.872	428	49.85	72
20	12.907	291	36.79	196	41.251	304	30.17	152	53.85	44	22.74	274	52.300	405	49.13	32
30	13.198	267	34.83	188	41.555	279	28.65	135	54.29	39	25.48	308	52.705	374	48.81	7
Juli 10	13.465	236	32.95	176	41.834	248	27.30	114	54.68	32	28.56	335	53.079	333	48.88	45
20	13.701	199	31.19	161	42.082	212	26.16	90	55.00	25	31.91	355	53.412	283	49.33	82
30	13.900	160	29.58	143	42.294	169	25.26	66	55.25	17	35.46	366	53.695	227	50.15	116
Aug. 9	14.060	116	28.15	121	42.463	125	24.60	42	55.42	9	39.12	370	53.922	166	51.31	143
19	14.176	72	26.94	99	42.588	80	24.18	19	55.51	1	42.82	365	54.088	102	52.74	166
28	[23] 14.248	30	25.95	77	[23] 42.668	35	23.99	3	[23] 55.52	6	46.47	353	[23] 54.190	39	54.40	182
Sept. 7	14.278	9	25.18	55	42.703	7	24.02	22	55.46	14	50.00	334	54.229	23	56.22	189
17	14.269	46	24.63	34	42.696	44	24.24	38	55.32	20	53.34	308	54.206	78	58.11	189
27	14.223	75	24.29	14	42.652	76	24.62	50	55.12	26	56.42	275	54.128	127	60.00	180
Okt. 7	14.148	98	24.15	3	42.576	101	25.12	58	54.86	32	59.17	237	54.001	165	61.80	163
17	14.050	114	24.18	19	42.475	117	25.70	62	54.54	36	61.54	193	53.836	194	63.43	140
27	13.936	122	24.37	33	42.358	126	26.32	64	54.18	38	63.47	143	53.642	210	64.83	109
Nov. 6	13.814	123	24.70	45	42.232	128	26.96	61	53.80	40	64.90	90	53.432	216	65.92	73
16	13.691	118	25.15	55	42.104	122	27.57	57	53.40	41	65.80	33	53.216	209	66.65	35
26	13.573	108	25.70	63	41.982	110	28.14	51	52.99	40	66.13	25	53.007	193	67.00	5
Dez. 6	13.465	92	26.33	70	41.872	92	28.65	43	52.59	38	65.88	82	52.814	169	66.95	46
16	13.373	72	27.03	74	41.780	72	29.08	33	52.21	35	65.06	138	52.645	137	66.49	85
26	13.301	50	27.77	76	41.708	49	29.41	21	51.86	31	63.68	189	52.508	100	65.64	122
36	13.251		28.53		41.659		29.62		51.55		61.79		52.408		64.42	
Mittl. Ort	11.352		38.28		39.527		35.91		52.77		37.34		49.782		63.86	
sec δ, tg δ	1.000		−0.011		1.032		−0.253		2.162		+1.916		1.475		−1.084	

Tag	834) ϑ Pegasi				835) π Pegasi				836) ζ Cephei				837) 24 Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	22h 6m		+5° 50′		22h 6m		+32° 49′		22h 8m		+57° 51′		22h 8m		+71° 59′	
Jan. 1	38.645	45	63.52	103	50.803	92	63.65	186	22.763	233	26.80	214	23.81	49	54.43	207
11	38.600	19	62.49	104	50.711	62	61.79	208	22.530	184	24.66	252	23.32	41	52.36	252
21	38.581	7	61.45	101	50.649	29	59.71	221	22.346	127	22.14	280	22.91	30	49.84	286
31	38.588	36	60.44	92	50.620	7	57.50	226	22.219	63	19.34	296	22.61	18	46.98	310
Feb. 10	38.624	66	59.52	79	50.627	46	55.24	220	22.156	5	16.38	302	22.43	6	43.88	320
20	38.690	98	58.73	59	50.673	88	53.04	205	22.161	78	13.36	294	22.37	7	40.68	318
März 2	38.788	130	58.14	36	50.761	129	50.99	181	22.239	150	10.42	275	22.44	20	37.50	303
12	38.918	164	57.78	8	50.890	171	49.18	148	22.389	220	7.67	244	22.64	32	34.47	275
22	39.082	196	57.70	22	51.061	212	47.70	109	22.609	286	5.23	203	22.96	44	31.72	237
Apr. 1	39.278	228	57.92	52	51.273	250	46.61	64	22.895	347	3.20	155	23.40	55	29.35	190
11	39.506	256	58.44	89	51.523	284	45.97	16	23.242	397	1.65	100	23.95	62	27.45	136
21	39.762	281	59.33	117	51.807	311	45.81	33	23.639	437	0.65	42	24.57	69	26.09	77
Mai 1	40.043	300	60.50	144	52.118	333	46.14	82	24.076	466	0.23	17	25.26	73	25.32	16
11	40.343	313	61.94	169	52.451	345	46.96	128	24.542	480	0.40	76	25.99	75	25.16	45
21	40.656	320	63.63	188	52.796	349	48.24	171	25.022	481	1.16	132	26.74	75	25.61	105
31	40.976	318	65.51	203	53.145	345	49.95	208	25.503	469	2.48	185	27.49	72	26.66	162
Juni 10	41.294	308	67.54	211	53.490	332	52.03	240	25.972	444	4.33	231	28.21	67	28.28	213
20	41.602	292	69.65	215	53.822	309	54.43	265	26.416	408	6.64	272	28.88	61	30.41	258
30	41.894	267	71.80	212	54.131	279	57.08	283	26.824	360	9.36	305	29.49	53	32.99	297
Juli 10	42.161	237	73.92	206	54.410	243	59.91	295	27.184	304	12.41	331	30.02	44	35.96	329
20	42.398	201	75.98	193	54.653	201	62.86	300	27.488	242	15.72	350	30.46	33	39.25	353
30	42.599	160	77.91	177	54.854	155	65.86	297	27.730	174	19.22	360	30.79	22	42.78	369
Aug. 9	42.759	117	79.68	159	55.009	107	68.83	290	27.904	105	22.82	362	31.01	11	46.47	377
19	42.876	75	81.27	138	55.116	58	71.73	275	28.009	34	26.44	357	31.12	1	50.24	378
28	[24] 42.951	32	82.65	116	[24] 55.174	12	74.48	257	[24] 28.043	33	30.01	345	[24] 31.11	12	54.02	369
Sept. 7	42.983	8	83.81	93	55.186	32	77.05	232	28.010	99	33.46	326	30.99	23	57.71	355
17	42.975	43	84.74	69	55.154	72	79.37	206	27.911	158	36.72	300	30.76	32	61.26	331
27	42.932	73	85.43	47	55.082	106	81.43	174	27.753	211	39.72	267	30.44	41	64.57	302
Okt. 7	42.859	97	85.90	25	54.976	133	83.17	139	27.542	255	42.39	230	30.03	50	67.59	265
17	42.762	112	86.15	4	54.843	153	84.56	103	27.287	290	44.69	186	29.53	56	70.24	222
27	42.650	122	86.19	15	54.690	166	85.59	63	26.997	315	46.55	138	28.97	61	72.46	174
Nov. 6	42.528	124	86.04	33	54.524	171	86.22	23	26.682	330	47.93	86	28.36	64	74.20	119
16	42.404	121	85.71	51	54.353	169	86.45	18	26.352	336	48.79	31	27.72	66	75.39	62
26	42.283	110	85.20	66	54.184	162	86.27	59	26.016	331	49.10	26	27.06	65	76.01	2
Dez. 6	42.173	96	84.54	79	54.022	148	85.68	98	25.685	317	48.84	81	26.41	64	76.03	59
16	42.077	78	83.75	90	53.874	130	84.70	135	25.368	291	48.03	135	25.77	60	75.44	118
26	41.999	57	82.85	98	53.744	106	83.35	167	25.077	257	46.68	184	25.17	54	74.26	174
36	41.942		81.87		53.638		81.68		24.820		44.84		24.63		72.52	
Mittl. Ort	40.130		70.03		52.585		62.84		25.362		20.53		27.94		46.15	
sec δ, tg δ	1.005		+0.102		1.190		+0.645		1.879		+1.591		3.235		+3.077	

Tag	840) ϑ Aquarii AR.		Dekl.		841) α Tucanae AR.		Dekl.		842) γ Aquarii AR.		Dekl.		844) 3 Lacertae AR.		Dekl.	
1930	22h 13m		−8° 7′		22h 13m		−60° 36′		22h 18m		−1° 44′		22h 20m		+51° 52′	
Jan. 1	7.089	42	67.37	44	41.54	16	55.47	194	1.085	47	35.21	70	45.991	192	45.91	199
11	7.047	17	67.81	34	41.38	10	53.53	230	1.038	24	35.91	66	45.799	153	43.92	235
21	7.030	9	68.15	23	41.28	3	51.23	262	1.014	2	36.57	57	45.646	108	41.57	263
31	7.039	37	68.38	9	41.25	3	48.61	285	1.016	29	37.14	46	45.538	56	38.94	279
Feb. 10	7.076	66	68.47	8	41.28	9	45.76	302	1.045	58	37.60	31	45.482	0	36.15	284
20	7.142	98	68.39	27	41.37	16	42.74	313	1.103	89	37.91	11	45.482	61	33.31	278
März 2	7.240	129	68.12	49	41.53	22	39.61	317	1.192	122	38.02	11	45.543	122	30.53	259
12	7.369	162	67.63	71	41.75	28	36.44	313	1.314	155	37.91	36	45.665	182	27.94	230
22	7.531	194	66.92	95	42.03	34	33.31	306	1.469	187	37.55	62	45.847	242	25.64	192
Apr. 1	7.725	226	65.97	117	42.37	40	30.25	289	1.656	219	36.93	89	46.089	296	23.72	146
11	7.951	255	64.80	139	42.77	45	27.36	269	1.875	249	36.04	115	46.385	343	22.26	93
21	8.206	280	63.41	157	43.22	49	24.67	242	2.124	275	34.89	140	46.728	382	21.33	37
Mai 1	8.486	301	61.84	172	43.71	53	22.25	209	2.399	296	33.49	161	47.110	410	20.96	19
11	8.787	316	60.12	183	44.24	55	20.16	173	2.695	312	31.88	177	47.520	428	21.15	76
21	9.103	324	58.29	188	44.79	57	18.43	133	3.007	320	30.11	190	47.948	434	21.91	130
31	9.427	325	56.41	190	45.36	57	17.10	88	3.327	322	28.21	198	48.382	427	23.21	179
Juni 10	9.752	317	54.51	185	45.93	55	16.22	43	3.649	314	26.23	199	48.809	410	25.00	225
20	10.069	302	52.66	177	46.48	53	15.79	4	3.963	299	24.24	196	49.219	382	27.25	264
30	10.371	279	50.89	163	47.01	49	15.83	49	4.262	277	22.28	188	49.601	343	29.89	296
Juli 10	10.650	249	49.26	146	47.50	44	16.32	93	4.539	248	20.40	175	49.944	297	32.85	320
20	10.899	214	47.80	126	47.94	38	17.25	135	4.787	213	18.65	159	50.241	244	36.05	338
30	11.113	174	46.54	103	48.32	30	18.60	170	5.000	174	17.06	140	50.485	187	39.43	347
Aug. 9	11.287	131	45.51	81	48.62	22	20.30	200	5.174	132	15.66	118	50.672	126	42.90	350
19	11.418	87	44.70	57	48.84	13	22.30	222	5.306	89	14.48	96	50.798	64	46.40	344
28	[25] 11.505	44	44.13	34	[25] 48.97	5	24.52	237	[27] 5.395	46	13.52	73	[27] 50.862	4	49.84	332
Sept. 7	11.549	2	43.79	13	49.02	3	26.89	241	5.441	6	12.79	51	50.866	53	53.16	313
17	11.551	34	43.66	6	48.99	11	29.30	235	5.447	31	12.28	29	50.813	106	56.29	289
27	11.517	66	43.72	22	48.88	19	31.65	221	5.416	61	11.99	10	50.707	152	59.18	257
Okt. 7	11.451	90	43.94	35	48.69	24	33.86	196	5.355	86	11.89	7	50.555	191	61.75	221
17	11.361	108	44.29	44	48.45	29	35.82	163	5.269	105	11.96	22	50.364	224	63.96	180
27	11.253	119	44.73	52	48.16	31	37.45	123	5.164	115	12.18	35	50.140	248	65.76	135
Nov. 6	11.134	121	45.25	57	47.85	33	38.68	77	5.049	118	12.53	46	49.892	261	67.11	85
16	11.013	117	45.82	58	47.52	33	39.45	27	4.931	117	12.99	55	49.631	268	67.96	33
26	10.896	108	46.40	58	47.19	31	39.72	24	4.814	108	13.54	62	49.363	266	68.29	20
Dez. 6	10.788	94	46.98	57	46.88	29	39.48	75	4.706	95	14.16	66	49.097	256	68.09	73
16	10.694	76	47.55	52	46.59	24	38.73	125	4.611	79	14.82	69	48.841	237	67.36	124
26	10.618	55	48.07	46	46.35	19	37.48	170	4.532	59	15.51	70	48.604	209	66.12	171
36	10.563		48.53		46.16		35.78		4.473		16.21		48.395		64.41	
Mittl. Ort	8.482		57.01		43.31		33.84		2.477		26.74		48.224		40.01	
sec δ, tg δ	1.010		−0.143		2.038		−1.775		1.000		−0.030		1.620		+1.274	

Scheinbare Sternörter 1930

Tag	848) 7 Lacertae				850) η Aquarii				852) 10 Lacertae				855) ζ Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	$22^h\ 28^m$		+49° 55′		$22^h\ 31^m$		−0° 28′		$22^h\ 36^m$		+38° 40′		$22^h\ 37^m$		+10° 27′	
Jan. 1	22.122	185	25.52	189	44.261	56	51.83	73	5.272	131	71.31	171	56.835	69	51.09	108
11	21.937	148	23.63	226	44.205	35	52.56	69	5.141	105	69.60	201	56.766	48	50.01	113
21	21.789	107	21.37	253	44.170	11	53.25	62	5.036	72	67.59	221	56.718	24	48.88	114
31	21.682	58	18.84	270	44.159	15	53.87	50	4.964	36	65.38	234	56.694	2	47.74	110
Feb. 10	21.624	6	16.14	275	44.174	44	54.37	36	4.928	6	63.04	236	56.696	32	46.64	99
20	21.618	51	13.39	270	44.218	74	54.73	17	4.934	49	60.68	227	56.728	64	45.65	82
März 2	21.669	110	10.69	253	44.292	107	54.90	5	4.983	97	58.41	209	56.792	97	44.83	60
12	21.779	169	8.16	225	44.399	141	54.85	30	5.080	144	56.32	181	56.889	133	44.23	33
22	21.948	226	5.91	188	44.540	175	54.55	57	5.224	191	54.51	145	57.022	169	43.90	3
Apr. 1	22.174	279	4.03	143	44.715	208	53.98	84	5.415	236	53.06	103	57.191	204	43.87	30
11	22.453	326	2.60	93	44.923	239	53.14	111	5.651	277	52.03	56	57.395	237	44.17	64
21	22.779	365	1.67	38	45.162	268	52.03	136	5.928	313	51.47	7	57.632	266	44.81	97
Mai 1	23.144	395	1.29	18	45.430	291	50.67	158	6.241	339	51.40	45	57.898	290	45.78	129
11	23.539	414	1.47	73	45.721	308	49.09	177	6.580	359	51.85	94	58.188	309	47.07	158
21	23.953	422	2.20	127	46.029	318	47.32	191	6.939	369	52.79	141	58.497	320	48.65	182
31	24.375	419	3.47	176	46.347	322	45.41	200	7.308	370	54.20	183	58.817	323	50.47	201
Juni 10	24.794	404	5.23	221	46.669	317	43.41	203	7.678	360	56.03	222	59.140	318	52.48	216
20	25.198	379	7.44	259	46.986	304	41.38	202	8.038	341	58.25	253	59.458	306	54.64	224
30	25.577	343	10.03	290	47.290	284	39.36	194	8.379	314	60.78	279	59.764	285	56.88	227
Juli 10	25.920	300	12.93	316	47.574	257	37.42	184	8.693	280	63.57	297	60.049	258	59.15	224
20	26.220	251	16.09	333	47.831	223	35.58	167	8.973	238	66.54	308	60.307	224	61.39	216
30	26.471	195	19.42	342	48.054	185	33.91	149	9.211	192	69.62	314	60.531	187	63.55	204
Aug. 9	26.666	138	22.84	344	48.239	144	32.42	128	9.403	144	72.76	311	60.718	145	65.59	188
19	26.804	79	26.28	340	48.383	101	31.14	105	9.547	93	75.87	303	60.863	104	67.47	169
29	26.883	20	29.68	329	48.484	59	30.09	82	9.640	43	78.90	288	60.967	61	69.16	147
Sept. 7	26.903	34	32.97	310	48.543	19	29.27	60	9.683	3	81.78	270	61.028	21	70.63	124
17	26.869	86	36.07	286	48.562	18	28.67	38	9.680	47	84.48	244	61.049	17	71.87	101
27	26.783	131	38.93	257	48.544	50	28.29	17	9.633	86	86.92	215	61.032	48	72.88	76
Okt. 7	26.652	171	41.50	221	48.494	76	28.12	1	9.547	118	89.07	183	60.984	74	73.64	52
17	26.481	201	43.71	181	48.418	96	28.13	18	9.429	145	90.90	146	60.910	95	74.16	29
27	26.280	225	45.52	137	48.322	108	28.31	32	9.284	163	92.36	106	60.815	109	74.45	6
Nov. 6	26.055	241	46.89	89	48.214	114	28.63	43	9.121	176	93.42	65	60.706	116	74.51	16
16	25.814	248	47.78	38	48.100	114	29.06	53	8.945	181	94.07	20	60.590	119	74.35	36
26	25.566	248	48.16	13	47.986	109	29.59	61	8.764	181	94.27	25	60.471	114	73.99	56
Dez. 6	25.318	239	48.03	66	47.877	98	30.20	67	8.583	174	94.02	68	60.357	106	73.43	73
16	25.079	223	47.37	115	47.779	85	30.87	70	8.409	161	93.34	110	60.251	94	72.70	89
26	24.856	200	46.22	162	47.694	67	31.57	72	8.248	143	92.24	149	60.157	78	71.81	100
36	24.656		44.60		47.627		32.29		8.105		90.75		60.079		70.81	
Mittl. Ort	24.236		19.59		45.591		43.99		7.031		67.62		58.206		55.43	
sec δ, tg δ	1.553		+1.188		1.000		−0.008		1.281		+0.801		1.017		+0.185	

Tag	856) β Gruis AR.		Dekl.		857) η Pegasi AR.		Dekl.		859) λ Pegasi AR.		Dekl.		860) ε Gruis AR.		Dekl.	
1930	22h 38m		−47° 14′		22h 39m		+29° 51′		22h 43m		+23° 11′		22h 44m		−51° 40′	
Jan. 1	28.368	115	85.34	121	41.512	104	17.89	155	7.961	90	48.15	139	18.820	142	88.93	135
11	28.253	79	84.13	157	41.408	81	16.34	177	7.871	70	46.76	156	18.678	103	87.58	174
21	28.174	40	82.56	189	41.327	54	14.57	192	7.801	44	45.20	166	18.575	61	85.84	208
31	28.134	1	80.67	218	41.273	22	12.65	199	7.757	16	43.54	170	18.514	15	83.76	238
Feb. 10	28.135	44	78.49	240	41.251	13	10.66	198	7.741	17	41.84	165	18.499	33	81.38	262
20	28.179	90	76.09	259	41.264	51	8.68	187	7.758	52	40.19	152	18.532	82	78.76	280
März 2	28.269	135	73.50	272	41.315	93	6.81	167	7.810	89	38.67	132	18.614	133	75.96	293
12	28.404	182	70.78	279	41.408	134	5.14	139	7.899	129	37.35	105	18.747	184	73.03	300
22	28.586	229	67.99	283	41.542	177	3.75	105	8.028	169	36.30	72	18.931	235	70.03	300
Apr. 1	28.815	273	65.16	279	41.719	218	2.70	65	8.197	207	35.58	35	19.166	284	67.03	295
11	29.088	316	62.37	271	41.937	255	2.05	22	8.404	243	35.23	6	19.450	331	64.08	285
21	29.404	354	59.66	256	42.192	288	1.83	23	8.647	275	35.29	48	19.781	373	61.23	268
Mai 1	29.758	386	57.10	237	42.480	314	2.06	70	8.922	301	35.77	88	20.154	410	58.55	244
11	30.144	412	54.73	212	42.794	334	2.76	113	9.223	320	36.65	128	20.564	438	56.11	216
21	30.556	429	52.61	182	43.128	344	3.89	154	9.543	332	37.93	163	21.002	457	53.95	183
31	30.985	436	50.79	147	43.472	346	5.43	190	9.875	335	39.56	194	21.459	467	52.12	146
Juni 10	31.421	433	49.32	110	43.818	340	7.33	222	10.210	331	41.50	220	21.926	465	50.66	105
20	31.854	420	48.22	69	44.158	324	9.55	247	10.541	316	43.70	241	22.391	452	49.61	61
30	32.274	396	47.53	27	44.482	300	12.02	266	10.857	294	46.11	254	22.843	427	49.00	16
Juli 10	32.670	361	47.26	15	44.782	269	14.68	279	11.151	266	48.65	261	23.270	392	48.84	27
20	33.031	317	47.41	56	45.051	233	17.47	284	11.417	231	51.26	263	23.662	346	49.11	71
30	33.348	266	47.97	94	45.284	190	20.31	284	11.648	192	53.89	259	24.008	291	49.82	111
Aug. 9	33.614	209	48.91	129	45.474	146	23.15	278	11.840	149	56.48	250	24.299	230	50.93	147
19	33.823	148	50.20	158	45.620	99	25.93	267	11.989	105	58.98	236	24.529	165	52.40	177
29	33.971	84	51.78	179	45.719	54	28.60	250	12.094	61	61.34	217	24.694	96	54.17	199
Sept. 7	34.055	24	53.57	195	45.773	11	31.10	229	12.155	20	63.51	196	24.790	28	56.16	213
17	34.079	35	55.52	201	45.784	30	33.39	204	12.175	19	65.47	171	24.818	35	58.29	220
27	34.044	88	57.53	198	45.754	65	35.43	176	12.156	53	67.18	144	24.783	94	60.49	215
Okt. 7	33.956	132	59.51	187	45.689	95	37.19	146	12.103	82	68.62	116	24.689	144	62.64	203
17	33.824	167	61.38	167	45.594	118	38.65	112	12.021	103	69.78	86	24.545	185	64.67	180
27	33.657	192	63.05	141	45.476	135	39.77	77	11.918	120	70.64	55	24.360	214	66.47	150
Nov. 6	33.465	205	64.46	107	45.341	146	40.54	41	11.798	130	71.19	22	24.146	232	67.97	114
16	33.260	209	65.53	69	45.195	150	40.95	3	11.668	134	71.41	9	23.914	237	69.11	73
26	33.051	202	66.22	28	45.045	149	40.98	35	11.534	132	71.32	41	23.677	233	69.84	28
Dez. 6	32.849	187	66.50	14	44.896	142	40.63	71	11.402	126	70.91	71	23.444	218	70.12	19
16	32.662	164	66.36	57	44.754	131	39.92	105	11.276	115	70.20	99	23.226	194	69.93	66
26	32.498	136	65.79	98	44.623	114	38.87	137	11.161	100	69.21	124	23.032	164	69.27	110
36	32.362		64.81		44.509		37.50		11.061		67.97		22.868		68.17	
Mittl. Ort	29.642		65.29		43.093		16.40		9.435		48.44		20.068		68.00	
sec δ, tg δ	1.473		−1.082		1.153		+0.574		1.088		+0.428		1.613		−1.266	

Tag	863) ι Cephei AR.		863) ι Cephei Dekl.		864) λ Aquarii AR.		864) λ Aquarii Dekl.		865) ρ Indi AR.		865) ρ Indi Dekl.		866) δ Aquarii AR.		866) δ Aquarii Dekl.	
1930	22h 47m		+65° 49′		22h 48m		−7° 56′		22h 49m		−70° 26′		20h 50m		−16° 11′	
Jan. 1	8.04	38	64.89	165	56.618	65	79.02	44	47.29	36	77.14	200	55.066	68	48.90	13
11	7.66	34	63.24	214	56.553	46	79.46	33	46.93	29	75.14	246	54.998	48	49.03	5
21	7.32	27	61.10	253	56.507	23	79.79	20	46.64	20	72.68	284	54.950	25	48.98	23
31	7.05	19	58.57	282	56.484	1	79.99	5	46.44	11	69.84	315	54.925	1	48.75	42
Feb. 10	6.86	11	55.75	301	56.485	30	80.04	12	46.33	2	66.69	337	54.926	29	48.33	63
20	6.75	2	52.74	305	56.515	59	79.92	32	46.31	8	63.32	353	54.955	60	47.70	83
März 2	6.73	9	49.69	298	56.574	92	79.60	54	46.39	18	59.79	360	55.015	93	46.87	104
12	6.82	18	46.71	278	56.666	126	79.06	77	46.57	27	56.19	360	55.108	128	45.83	126
22	7.00	27	43.93	248	56.792	161	78.29	100	46.84	37	52.59	350	55.236	163	44.57	145
Apr. 1	7.27	36	41.45	207	56.953	195	77.29	123	47.21	45	49.09	335	55.399	198	43.12	164
11	7.63	45	39.38	158	57.148	229	76.06	145	47.66	54	45.74	313	55.597	232	41.48	179
21	8.08	50	37.80	104	57.377	259	74.61	164	48.20	61	42.61	284	55.829	264	39.69	192
Mai 1	8.58	55	36.76	47	57.636	286	72.97	180	48.81	67	39.77	249	56.093	291	37.77	201
11	9.13	59	36.29	12	57.922	305	71.17	192	49.48	72	37.28	208	56.384	312	35.76	204
21	9.72	60	36.41	71	58.227	320	69.25	198	50.20	75	35.20	164	56.696	327	33.72	204
31	10.32	60	37.12	128	58.547	326	67.27	200	50.95	78	33.56	115	57.023	334	31.68	197
Juni 10	10.92	58	38.40	181	58.873	324	65.27	197	51.73	77	32.41	64	57.357	333	29.71	185
20	11.50	54	40.21	228	59.197	315	63.30	189	52.50	75	31.77	12	57.690	324	27.86	170
30	12.04	49	42.49	270	59.512	297	61.41	175	53.25	70	31.65	40	58.014	306	26.16	149
Juli 10	12.53	44	45.19	306	59.809	272	59.66	158	53.95	65	32.05	91	58.320	282	24.67	126
20	12.97	37	48.25	334	60.081	240	58.08	138	54.60	58	32.96	138	58.602	250	23.41	99
30	13.34	28	51.59	354	60.321	204	56.70	114	55.18	48	34.34	182	58.852	213	22.42	72
Aug. 9	13.62	21	55.13	368	60.525	164	55.56	90	55.66	38	36.16	217	59.065	171	21.70	44
19	13.83	12	58.81	373	60.689	121	54.66	64	56.04	26	38.33	246	59.236	128	21.26	16
29	13.95	3	62.54	370	60.810	78	54.02	40	56.30	14	40.79	265	59.364	83	21.10	9
Sept. 7	[3] 13.98	5	66.24	361	[3] 60.888	37	53.62	17	[4] 56.44	2	43.44	275	[4] 59.447	41	21.19	31
17	13.93	13	69.85	343	60.925	1	53.45	4	56.46	11	46.19	274	59.488	0	21.50	52
27	13.80	21	73.28	319	60.924	34	53.49	22	56.35	22	48.93	261	59.488	35	22.02	67
Okt. 7	13.59	27	76.47	287	60.890	63	53.71	37	56.13	31	51.54	238	59.453	65	22.69	77
17	13.32	33	79.34	250	60.827	85	54.08	49	55.82	40	53.92	204	59.388	89	23.46	82
27	12.99	37	81.84	205	60.742	101	54.57	57	55.42	46	55.96	162	59.299	105	24.28	83
Nov. 6	12.62	41	83.89	155	60.641	109	55.14	61	54.96	51	57.58	113	59.194	115	25.11	80
16	12.21	44	85.44	101	60.532	112	55.75	63	54.45	53	58.71	58	59.079	117	25.91	74
26	11.77	45	86.45	44	60.420	109	56.38	63	53.92	52	59.29	1	58.962	115	26.65	63
Dez. 6	11.32	45	86.89	15	60.311	102	57.01	60	53.40	51	59.28	59	58.847	107	27.28	51
16	10.87	43	86.74	75	60.209	89	57.61	54	52.89	46	58.69	117	58.740	95	27.79	37
26	10.44	41	85.99	131	60.120	75	58.15	47	52.43	41	57.52	170	58.645	78	28.16	22
36	10.03		84.68		60.045		58.62		52.02		55.82		58.567		28.38	
Mittl. Ort	10.96		54.92		57.820		69.20		48.81		53.72		56.226		36.60	
sec δ, tg δ	2.442		+2.228		1.010		−0.140		2.988		−2.816		1.041		−0.290	

Tag	867) α Pisc. austr. AR.		Dekl.		869) ο Andromedae AR.		Dekl.		870) β Pegasi AR.		Dekl.		871) α Pegasi AR.		Dekl.	
1930	$22^h\ 53^m$		$-29°\ 59'$		$22^h\ 58^m$		$+41°\ 56'$		$23^h\ 0^m$		$+27°\ 41'$		$23^h\ 1^m$		$+14°\ 49'$	
Jan. 1	46.046	83	53.17	40	40.064	158	63.12	154	21.236	109	71.46	135	15.042	86	39.40	109
11	45.963	60	52.77	68	39.906	135	61.58	187	21.127	90	70.11	157	14.956	68	38.31	120
21	45.903	34	52.09	96	39.771	104	59.71	213	21.037	67	68.54	172	14.888	48	37.11	125
31	45.869	4	51.13	121	39.667	69	57.58	231	20.970	38	66.82	181	14.840	23	35.86	124
Feb. 10	45.865	27	49.92	145	39.598	28	55.27	239	20.932	6	65.01	180	14.817	6	34.62	117
20	45.892	61	48.47	166	39.570	19	52.88	235	20.926	31	63.21	171	14.823	38	33.45	103
März 2	45.953	97	46.81	186	39.589	68	50.53	223	20.957	70	61.50	155	14.861	72	32.42	84
12	46.050	135	44.95	202	39.657	119	48.30	199	21.027	112	59.95	130	14.933	110	31.58	59
22	46.185	174	42.93	217	39.776	171	46.31	168	21.139	155	58.65	99	15.043	148	30.99	29
Apr. 1	46.359	212	40.76	226	39.947	221	44.63	128	21.294	197	57.66	61	15.191	186	30.70	4
11	46.571	248	38.50	232	40.168	267	43.35	83	21.491	236	57.05	21	15.377	222	30.74	40
21	46.819	282	36.18	233	40.435	308	42.52	35	21.727	271	56.84	22	15.599	255	31.14	74
Mai 1	47.101	312	33.85	229	40.743	341	42.17	16	21.998	301	57.06	65	15.854	283	31.88	109
11	47.413	336	31.56	221	41.084	366	42.33	67	22.299	324	57.71	107	16.137	305	32.97	142
21	47.749	353	29.35	206	41.450	381	43.00	115	22.623	338	58.78	146	16.442	320	34.39	170
31	48.102	361	27.29	187	41.831	386	44.15	161	22.961	345	60.24	181	16.762	327	36.09	194
Juni 10	48.463	361	25.42	162	42.217	381	45.76	202	23.306	342	62.05	211	17.089	325	38.03	213
20	48.824	353	23.80	135	42.598	365	47.78	238	23.648	331	64.16	237	17.414	316	40.16	226
30	49.177	335	22.45	104	42.963	341	50.16	267	23.979	311	66.53	255	17.730	299	42.42	234
Juli 10	49.512	309	21.41	70	43.304	308	52.83	290	24.290	283	69.08	267	18.029	274	44.76	236
20	49.821	276	20.71	35	43.612	269	55.73	307	24.573	249	71.75	274	18.303	243	47.12	233
30	50.097	235	20.36	0	43.881	224	58.80	316	24.822	211	74.49	274	18.546	207	49.45	223
Aug. 9	50.332	191	20.36	32	44.105	175	61.96	318	25.033	169	77.23	268	18.753	167	51.68	211
19	50.523	142	20.68	63	44.280	124	65.14	315	25.202	124	79.91	258	18.920	126	53.79	194
29	50.665	94	21.31	89	44.404	75	68.29	304	25.326	80	82.49	242	19.046	84	55.73	175
Sept. 7	[5] 50.759	45	22.20	111	[6] 44.479	23	71.33	288	[6] 25.406	37	84.91	223	[6] 19.130	43	57.48	152
17	50.804	1	23.31	126	44.502	22	74.21	267	25.443	3	87.14	199	19.173	5	59.00	129
27	50.803	41	24.57	135	44.480	63	76.88	241	25.440	39	89.13	174	19.178	28	60.29	105
Okt. 7	50.762	75	25.92	138	44.417	100	79.29	211	25.401	70	90.87	145	19.150	56	61.34	79
17	50.687	104	27.30	133	44.317	131	81.40	175	25.331	95	92.32	114	19.094	80	62.13	54
27	50.583	123	28.63	122	44.186	155	83.15	136	25.236	115	93.46	81	19.014	97	62.67	29
Nov. 6	50.460	135	29.85	106	44.031	173	84.51	94	25.121	128	94.27	48	18.917	109	62.96	4
16	50.325	139	30.91	85	43.858	184	85.45	50	24.993	136	94.75	13	18.808	115	63.00	20
26	50.186	137	31.76	60	43.674	189	85.95	5	24.857	138	94.88	22	18.693	116	62.80	42
Dez. 6	50.049	128	32.36	34	43.485	188	86.00	42	24.719	136	94.66	56	18.577	112	62.38	64
16	49.921	115	32.70	5	43.297	181	85.58	86	24.583	128	94.10	89	18.465	105	61.74	84
26	49.806	96	32.75	24	43.116	167	84.72	128	24.455	117	93.21	117	18.360	93	60.90	100
36	49.710		32.51		42.949		83.44		24.338		92.04		18.267		59.90	
Mittl. Ort	47.157		36.99		41.773		57.48		22.680		69.73		16.335		41.64	
sec δ, tg δ	1.155		−0.577		1.344		+0.899		1.129		+0.525		1.034		+0.265	

Scheinbare Sternörter 1930

Tag	872) ϑ Gruis				874) π Cephei				873) c^2 Aquarii				875) Br 3077			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	23h 2m		−43° 53′		23h 5m		+75° 0′		23h 5m		−21° 32′		23h 9m		+56° 46′	
Jan. 1	55.456	127	76.18	90	35.89	71	44.35	130	41.944	81	83.46	3	52.148	264	63.30	142
11	55.329	98	75.28	128	35.18	64	43.05	185	41.863	63	83.43	27	51.884	233	61.88	189
21	55.231	66	74.00	163	34.54	54	41.20	232	41.800	40	83.16	49	51.651	193	59.99	226
31	55.165	30	72.37	194	34.00	42	38.88	269	41.760	14	82.67	73	51.458	143	57.73	254
Feb. 10	55.135	8	70.43	221	33.58	28	36.19	296	41.746	14	81.94	95	51.315	85	55.19	272
20	55.143	49	68.22	243	33.30	14	33.23	309	41.760	45	80.99	117	51.230	19	52.47	279
März 2	55.192	93	65.79	261	33.16	2	30.14	312	41.805	78	79.82	139	51.211	51	49.68	274
12	55.285	138	63.18	274	33.18	19	27.02	299	41.883	114	78.43	159	51.262	123	46.94	256
22	55.423	183	60.44	281	33.37	34	24.03	276	41.997	152	76.84	178	51.385	195	44.38	229
Apr. 1	55.606	228	57.63	284	33.71	48	21.27	241	42.149	189	75.06	193	51.580	265	42.09	192
11	55.834	272	54.79	280	34.19	60	18.86	198	42.338	225	73.13	206	51.845	328	40.17	148
21	56.106	313	51.99	271	34.79	72	16.88	147	42.563	258	71.07	215	52.173	384	38.69	97
Mai 1	56.419	348	49.28	256	35.51	80	15.41	91	42.821	289	68.92	219	52.557	429	37.72	43
11	56.767	377	46.72	236	36.31	85	14.50	33	43.110	312	66.73	219	52.986	463	37.29	13
21	57.144	399	44.36	210	37.16	89	14.17	27	43.422	331	64.54	213	53.449	483	37.42	69
31	57.543	412	42.26	178	38.05	89	14.44	85	43.753	341	62.41	201	53.932	490	38.11	122
Juni 10	57.955	414	40.48	143	38.94	87	15.29	142	44.094	343	60.40	186	54.422	484	39.33	172
20	58.369	406	39.05	104	39.81	83	16.71	194	44.437	336	58.54	164	54.906	465	41.05	218
30	58.775	388	38.01	63	40.64	76	18.65	241	44.773	321	56.90	140	55.371	435	43.23	258
Juli 10	59.163	361	37.38	21	41.40	67	21.06	282	45.094	298	55.50	112	55.806	394	45.81	291
20	59.524	324	37.17	21	42.07	58	23.88	317	45.392	267	54.38	82	56.200	344	48.72	318
30	59.848	278	37.38	63	42.65	46	27.05	345	45.659	231	53.56	50	56.544	288	51.90	338
Aug. 9	60.126	227	38.01	100	43.11	34	30.50	365	45.890	190	53.06	19	56.832	226	55.28	350
19	60.353	172	39.01	133	43.45	22	34.15	378	46.080	146	52.87	11	57.058	163	58.78	356
29	60.525	113	40.34	160	43.67	8	37.93	383	46.226	101	52.98	39	57.221	98	62.34	354
Sept. 7*)	60.638	55	41.94	180	43.75	4	41.76	380	46.327	56	53.37	63	57.319	33	65.88	344
17	60.693	0	43.74	193	43.71	17	45.56	369	46.383	14	54.00	82	57.352	27	69.32	328
27	60.693	51	45.67	197	43.54	29	49.25	351	46.397	23	54.82	96	57.325	84	72.60	306
Okt. 7	60.642	96	47.64	191	43.25	40	52.76	325	46.374	56	55.78	105	57.241	135	75.66	276
17	60.546	133	49.55	178	42.85	50	56.01	291	46.318	83	56.83	107	57.106	181	78.42	242
27	60.413	160	51.33	157	42.35	59	58.92	251	46.235	102	57.90	105	56.925	219	80.84	202
Nov. 6	60.253	178	52.90	128	41.76	66	61.43	204	46.133	115	58.95	97	56.706	250	82.86	155
16	60.075	187	54.18	95	41.10	72	63.47	150	46.018	121	59.92	85	56.456	272	84.41	106
26	59.888	187	55.13	57	40.38	75	64.97	92	45.897	120	60.77	70	56.184	286	85.47	53
Dez. 6	59.701	178	55.70	16	39.63	77	65.89	32	45.777	115	61.47	51	55.898	291	86.00	2
16	59.523	164	55.86	26	38.86	77	66.21	31	45.662	105	61.98	30	55.607	287	85.98	57
26	59.359	142	55.60	67	38.09	74	65.90	92	45.557	91	62.28	9	55.320	274	85.41	110
36	59.217		54.93		37.35		64.98		45.466		62.37		55.046		84.31	
Mittl. Ort	56.491		56.65		39.95		32.07		42.994		69.74		54.273		53.66	
sec δ, tg δ	1.388		−0.962		3.866		+3.734		1.075		−0.395		1.825		+1.527	

*) Bei Stern 874), 873) und 875) lies Sept. 8

Tag	877) γ Tucanae AR.	Δ	Dekl.	Δ	879) γ Sculptoris AR.	Δ	Dekl.	Δ	880) τ Pegasi AR.	Δ	Dekl.	Δ	882) 4 Cassiopeiae AR.	Δ	Dekl.	Δ
1930	23h 13m		−58° 36′		23h 15m		−32° 54′		23h 17m		+23° 21′		23h 21m		+61° 53′	
Jan. 1	20.278	226	93.59	136	1.933	105	66.07	40	8.871	107	25.60	118	40.87	34	65.01	125
11	20.052	187	92.23	183	1.828	84	65.67	73	8.764	91	24.42	136	40.53	31	63.76	175
21	19.865	140	90.40	223	1.744	59	64.94	104	8.673	72	23.06	149	40.22	26	62.01	218
31	19.725	90	88.17	259	1.685	32	63.90	133	8.601	47	21.57	155	39.96	21	59.83	252
Feb. 10	19.635	34	85.58	288	1.653	0	62.57	160	8.554	18	20.02	154	39.75	15	57.31	275
20	19.601	24	82.70	310	1.653	34	60.97	184	8.536	16	18.48	146	39.60	7	54.56	287
März 2	19.625	84	79.60	326	1.687	71	59.13	205	8.552	53	17.02	131	39.53	2	51.69	286
12	19.709	147	76.34	335	1.758	110	57.08	222	8.605	93	15.71	107	39.55	10	48.83	274
22	19.856	209	72.99	336	1.868	151	54.86	237	8.698	135	14.64	78	39.65	19	46.09	250
Apr. 1	20.065	271	69.63	332	2.019	191	52.49	248	8.833	177	13.86	45	39.84	27	43.59	217
11	20.336	330	66.31	320	2.210	231	50.01	253	9.010	217	13.41	7	40.11	34	41.42	174
21	20.666	384	63.11	302	2.441	269	47.48	253	9.227	253	13.34	33	40.45	41	39.68	125
Mai 1	21.050	433	60.09	276	2.710	303	44.95	249	9.480	284	13.67	72	40.86	47	38.43	72
11	21.483	474	57.33	246	3.013	330	42.46	238	9.764	310	14.39	110	41.33	51	37.71	16
21	21.957	504	54.87	210	3.343	352	40.08	222	10.074	328	15.49	146	41.84	53	37.55	41
31	22.461	524	52.77	168	3.695	365	37.86	201	10.402	337	16.95	178	42.37	54	37.96	96
Juni 10	22.985	530	51.09	123	4.060	369	35.85	174	10.739	338	18.73	205	42.91	54	38.92	149
20	23.515	525	49.86	75	4.429	364	34.11	144	11.077	330	20.78	226	43.45	53	40.41	198
30	24.040	504	49.11	26	4.793	351	32.67	110	11.407	313	23.04	243	43.98	49	42.39	242
Juli 10	24.544	472	48.85	24	5.144	328	31.57	73	11.720	290	25.47	253	44.47	45	44.81	279
20	25.016	426	49.09	72	5.472	296	30.84	36	12.010	259	28.00	257	44.92	39	47.60	310
30	25.442	369	49.81	118	5.768	258	30.48	2	12.269	224	30.57	255	45.31	33	50.70	335
Aug. 9	25.811	304	50.99	159	6.026	215	30.50	38	12.493	184	33.12	248	45.64	26	54.05	351
19	26.115	230	52.58	194	6.241	167	30.88	72	12.677	142	35.60	237	45.90	20	57.56	361
29	26.345	152	54.52	222	6.408	118	31.60	101	12.819	100	37.97	221	46.10	12	61.17	364
Sept. 8	26.497	73	56.74	240	6.526	68	32.61	126	12.919	58	40.18	201	46.22	5	64.81	359
17	[10] 26.570	5	59.14	249	[10] 6.594	21	33.87	143	[11] 12.977	19	42.19	179	[12] 46.27	3	68.40	346
27	26.565	79	61.63	248	6.615	23	35.30	154	12.996	17	43.98	155	46.24	9	71.86	327
Okt. 7	26.486	144	64.11	237	6.592	61	36.84	157	12.979	48	45.53	128	46.15	15	75.13	300
17	26.342	200	66.48	215	6.531	92	38.41	154	12.931	74	46.81	100	46.00	21	78.13	268
27	26.142	246	68.63	184	6.439	117	39.95	142	12.857	95	47.81	71	45.79	25	80.81	229
Nov. 6	25.896	276	70.47	145	6.322	133	41.37	124	12.762	109	48.52	40	45.54	30	83.10	184
16	25.620	296	71.92	100	6.189	142	42.61	102	12.653	120	48.92	11	45.24	33	84.94	134
26	25.324	301	72.92	50	6.047	144	43.63	74	12.533	124	49.03	20	44.91	35	86.28	80
Dez. 6	25.023	294	73.42	3	5.903	140	44.37	44	12.409	125	48.83	49	44.56	36	87.08	23
16	24.729	277	73.39	55	5.763	130	44.81	11	12.284	121	48.34	77	44.20	36	87.31	33
26	24.452	249	72.84	107	5.633	116	44.92	22	12.163	112	47.57	103	43.84	35	86.98	90
36	24.203		71.77		5.517		44.70		12.051		46.54		43.49		86.08	
Mittl. Ort	21.227		71.32		2.882		49.24		10.171		24.55		43.18		53.77	
sec δ, tg δ	1.920		−1.640		1.191		−0.647		1.089		+0.432		2.123		+1.873	

Tag	884) κ Piscium AR.		884) κ Piscium Dekl.		885) 70 Pegasi AR.		885) 70 Pegasi Dekl.		891) ι Andromedae AR.		891) ι Andromedae Dekl.		892) ι Piscium AR.		892) ι Piscium Dekl.	
1930	$23^h 23^m$		$+0° 52'$		$23^h 25^m$		$+12° 22'$		$23^h 34^m$		$+42° 52'$		$23^h 36^m$		$+5° 14'$	
Jan. 1	19.567	84	13.52	69	35.619	94	24.45	94	40.333	178	56.64	118	19.900	90	43.52	77
11	19.483	70	12.83	66	35.525	80	23.51	102	40.155	162	55.46	155	19.810	80	42.75	78
21	19.413	53	12.17	59	35.445	63	22.49	105	39.993	139	53.91	186	19.730	64	41.97	76
31	19.360	32	11.58	49	35.382	41	21.44	104	39.854	109	52.05	209	19.666	44	41.21	69
Feb. 10	19.328	7	11.09	35	35.341	16	20.40	97	39.745	71	49.96	223	19.622	21	40.52	58
20	19.321	21	10.74	18	35.325	15	19.43	85	39.674	28	47.73	228	19.601	8	39.94	44
März 2	19.342	54	10.56	2	35.340	48	18.58	67	39.646	21	45.45	221	19.609	40	39.50	24
12	19.396	89	10.58	26	35.388	85	17.91	43	39.667	74	43.24	206	19.649	76	39.26	1
22	19.485	125	10.84	51	35.473	123	17.48	16	39.741	129	41.18	182	19.725	113	39.25	25
Apr. 1	19.610	163	11.35	79	35.596	163	17.32	14	39.870	183	39.36	147	19.838	152	39.50	52
11	19.773	200	12.14	96	35.759	202	17.46	46	40.053	235	37.89	108	19.990	190	40.02	81
21	19.973	234	13.10	141	35.961	237	17.92	80	40.288	282	36.81	63	20.180	226	40.83	110
Mai 1	20.207	265	14.51	154	36.198	268	18.72	112	40.570	322	36.18	16	20.406	258	41.93	136
11	20.472	290	16.05	175	36.466	293	19.84	141	40.892	356	36.02	33	20.664	286	43.29	160
21	20.762	309	17.80	192	36.759	313	21.25	168	41.248	379	36.35	82	20.950	306	44.89	181
31	21.071	320	19.72	202	37.072	324	22.93	190	41.627	391	37.17	128	21.256	319	46.70	196
Juni 10	21.391	324	21.74	209	37.396	327	24.83	208	42.018	395	38.45	170	21.575	325	48.66	207
20	21.715	319	23.83	209	37.723	322	26.91	219	42.413	387	40.15	208	21.900	322	50.73	212
30	22.034	305	25.92	205	38.045	308	29.10	225	42.800	369	42.23	241	22.222	310	52.85	212
Juli 10	22.339	286	27.97	196	38.353	287	31.35	227	43.169	342	44.64	268	22.532	292	54.97	207
20	22.625	260	29.93	181	38.640	260	33.62	222	43.511	309	47.32	289	22.824	267	57.04	197
30	22.885	226	31.74	163	38.900	227	35.84	213	43.820	269	50.21	303	23.091	235	59.01	183
Aug. 9	23.111	189	33.37	143	39.127	190	37.97	199	44.089	223	53.24	311	23.326	200	60.84	164
19	23.300	150	34.80	121	39.317	150	39.96	183	44.312	175	56.35	311	23.526	162	62.48	144
29	23.450	109	36.01	96	39.467	110	41.79	162	44.487	126	59.46	307	23.688	122	63.92	122
Sept. 8	23.559	70	36.97	72	39.577	70	43.41	141	44.613	77	62.53	296	23.810	83	65.14	98
17	[12] 23.629	32	37.69	48	[13] 39.647	32	44.82	118	[15] 44.690	29	65.49	280	[15] 23.893	45	66.12	75
27	23.661	2	38.17	27	39.679	3	46.00	94	44.719	14	68.29	258	23.938	10	66.87	52
Okt. 7	23.659	33	38.44	7	39.676	33	46.94	71	44.705	54	70.87	232	23.948	20	67.39	30
17	23.626	57	38.51	11	39.643	57	47.65	47	44.651	90	73.19	201	23.928	46	67.69	11
27	23.569	76	38.40	27	39.586	78	48.12	24	44.561	120	75.20	166	23.882	67	67.80	8
Nov. 6	23.493	90	38.13	39	39.508	93	48.36	3	44.441	144	76.86	127	23.815	82	67.72	24
16	23.403	99	37.74	50	39.415	102	48.39	18	44.297	163	78.13	86	23.733	93	67.48	38
26	23.304	103	37.24	57	39.313	107	48.21	37	44.134	176	78.99	42	23.640	99	67.10	51
Dez. 6	23.201	102	36.67	64	39.206	108	47.84	56	43.958	185	79.41	3	23.541	102	66.59	60
16	23.099	97	36.03	67	39.098	105	47.28	72	43.773	186	79.38	48	23.439	100	65.99	69
26	23.002	89	35.36	68	38.993	98	46.56	86	43.587	181	78.90	92	23.339	94	65.30	74
36	22.913		34.68		38.895		45.70		43.406		77.98		23.245		64.56	
Mittl. Ort	20.629		19.73		36.760		26.71		41.843		49.10		20.922		47.88	
sec δ, tg δ	1.000		+0.015		1.024		+0.219		1.365		+0.929		1.004		+0.092	

Tag	893) γ Cephei AR.	Δ	893) γ Cephei Dekl.	Δ	894) ω² Aquarii AR.	Δ	894) ω² Aquarii Dekl.	Δ	895) 41 H. Cephei AR.	Δ	895) 41 H. Cephei Dekl.	Δ	896) Lac. δ Sculptoris AR.	Δ	896) Lac. δ Sculptoris Dekl.	Δ
1930	23ʰ 36ᵐ		+77° 14′		23ʰ 39ᵐ		−14° 55′		23ʰ 44ᵐ		+67° 24′		23ʰ 45ᵐ		−28° 30′	
Jan. 1	23.47ˢ	89	44.10″	84	4.748ˢ	93	66.62″	28	30.58ˢ	46	77.43″	89	16.193ˢ	114	78.33″	9
11	22.58	82	43.26	141	4.655	80	66.90	8	30.12	43	76.54	143	16.079	99	78.24	41
21	21.76	73	41.85	195	4.575	65	66.98	12	29.69	38	75.11	193	15.980	82	77.83	71
31	21.03	60	39.90	240	4.510	44	66.86	33	29.31	32	73.18	234	15.898	59	77.12	101
Feb. 10	20.43	46	37.50	274	4.466	20	66.53	55	28.99	25	70.84	265	15.839	33	76.11	130
20	19.97	30	34.76	297	4.446	8	65.98	78	28.74	15	68.19	285	15.806	1	74.81	156
März 2	19.67	11	31.79	307	4.454	40	65.20	101	28.59	5	65.34	293	15.805	33	73.25	181
12	19.56	8	28.72	305	4.494	75	64.19	123	28.54	5	62.41	288	15.838	70	71.44	203
22	19.64	26	25.67	290	4.569	113	62.96	145	28.59	16	59.53	272	15.908	110	69.41	221
Apr. 1	19.90	44	22.77	263	4.682	151	61.51	167	28.75	27	56.81	244	16.018	152	67.20	236
11	20.34	60	20.14	227	4.833	189	59.84	185	29.02	36	54.37	208	16.170	193	64.84	247
21	20.94	74	17.87	183	5.022	226	57.99	200	29.38	45	52.29	163	16.363	233	62.37	253
Mai 1	21.68	86	16.04	131	5.248	259	55.99	212	29.83	52	50.66	112	16.596	269	59.84	255
11	22.54	95	14.73	75	5.507	288	53.87	218	30.35	58	49.54	58	16.865	301	57.29	250
21	23.49	101	13.98	17	5.795	310	51.69	220	30.93	62	48.96	1	17.166	326	54.79	239
31	24.50	104	13.81	41	6.105	325	49.49	217	31.55	65	48.95	55	17.492	345	52.40	224
Juni 10	25.54	103	14.22	98	6.430	332	47.32	207	32.20	65	49.50	110	17.837	354	50.16	202
20	26.57	101	15.20	153	6.762	331	45.25	193	32.85	63	50.60	162	18.191	355	48.14	175
30	27.58	95	16.73	203	7.093	321	43.32	174	33.48	61	52.22	210	18.546	346	46.39	145
Juli 10	28.53	86	18.76	250	7.414	305	41.58	151	34.09	56	54.32	253	18.892	329	44.94	111
20	29.39	77	21.26	289	7.719	278	40.07	125	34.65	50	56.85	290	19.221	304	43.83	74
30	30.16	65	24.15	323	7.997	248	38.82	95	35.15	44	59.75	321	19.525	272	43.09	36
Aug. 9	30.81	53	27.38	349	8.245	212	37.87	65	35.59	36	62.96	343	19.797	234	42.73	2
19	31.34	38	30.87	369	8.457	172	37.22	35	35.95	28	66.39	360	20.031	191	42.75	37
29	31.72	24	34.56	381	8.629	130	36.87	5	36.23	19	69.99	369	20.222	146	43.12	70
Sept. 8	31.96	9	38.37	385	[16] 8.759	89	36.82	21	[17] 36.42	11	73:68	370	20.368	100	43.82	99
17*)	[15] 32.05	5	42.22	382	8.848	49	37.03	45	36.53	2	77.38	365	[18] 20.468	55	44.81	122
27	32.00	20	46.04	370	8.897	11	37.48	66	36.55	6	81.03	351	20.523	12	46.03	139
Okt. 7	31.80	34	49.74	351	8.908	22	38.14	80	36.49	14	84.54	331	20.535	25	47.42	149
17	31.46	47	53.25	323	8.886	50	38.94	89	36.35	21	87.85	302	20.510	58	48.91	151
27	30.99	58	56.48	288	8.836	72	39.83	94	36.14	28	90.87	267	20.452	85	50.42	146
Nov. 6	30.41	69	59.36	246	8.764	89	40.77	94	35.86	34	93.54	226	20.367	106	51.88	135
16	29.72	77	61.82	197	8.675	100	41.71	89	35.52	39	95.80	177	20.261	119	53.23	118
26	28.95	85	63.79	141	8.575	106	42.60	80	35.13	43	97.57	124	20.142	128	54.41	95
Dez. 6	28.10	89	65.20	82	8.469	108	43.40	69	34.70	45	98.81	67	20.014	130	55.36	69
16	27.21	91	66.02	19	8.361	105	44.09	54	34.25	47	99.48	8	19.884	127	56.05	40
26	26.30	90	66.21	43	8.256	98	44.63	37	33.78	46	99.56	51	19.757	119	56.45	9
36	25.40		65.78		8.158		45.00		33.32		99.05		19.638		56.54	
Mittl. Ort	27.56		29.91		5.617		55.50		33.05		64.13		16.938		63.11	
sec δ, tg δ	4.528		+4.416		1.035		−0.267		2.604		+2.404		1.138		−0.543	

*) Bei Stern 896) lies Sept. 18

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Tag	898) φ Pegasi				902) ω Piscium				903) ε Tucanae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1930	$23^h\,48^m$		$+18°\,43'$		$23^h\,55^m$		$+6°\,28'$		$23^h\,56^m$		$-65°\,57'$	
Jan. 1	$54^s.358$	109	$53''.66$	93	$41^s.996$	98	$29''.35$	74	$17^s.14$	38	$83''.13$	113
11	54.249	101	52.73	107	41.898	90	28.61	76	16.76	34	82.00	167
21	54.148	86	51.66	118	41.808	77	27.85	75	16.42	30	80.33	217
31	54.062	67	50.48	123	41.731	61	27.10	70	16.12	24	78.16	259
Feb. 10	53.995	42	49.25	122	41.670	39	26.40	60	15.88	17	75.57	296
20	53.953	13	48.03	114	41.631	12	25.80	47	15.71	10	72.61	326
März 2	53.940	22	46.89	100	41.619	20	25.33	28	15.61	3	69.35	347
12	53.962	60	45.89	81	41.639	55	25.05	7	15.58	5	65.88	362
22	54.022	101	45.08	55	41.694	94	24.98	18	15.63	13	62.26	368
Apr. 1	54.123	143	44.53	25	41.788	133	25.16	45	15.76	22	58.58	367
11	54.266	186	44.28	8	41.921	173	25.61	73	15.98	30	54.91	357
21	54.452	224	44.36	43	42.094	211	26.34	102	16.28	37	51.34	342
Mai 1	54.676	260	44.79	77	42.305	246	27.36	130	16.65	44	47.92	318
11	54.936	289	45.56	112	42.551	276	28.66	154	17.09	51	44.74	288
21	55.225	312	46.68	143	42.827	299	30.20	175	17.60	56	41.86	251
31	55.537	327	48.11	171	43.126	316	31.95	192	18.16	60	39.35	208
Juni 10	55.864	334	49.82	195	43.442	324	33.87	205	18.76	63	37.27	160
20	56.198	332	51.77	213	43.766	324	35.92	212	19.39	63	35.67	110
30	56.530	321	53.90	227	44.090	316	38.04	213	20.02	63	34.57	56
Juli 10	56.851	304	56.17	234	44.406	300	40.17	210	20.65	61	34.01	1
20	57.155	278	58.51	236	44.706	278	42.27	202	21.26	56	34.00	52
30	57.433	248	60.87	232	44.984	249	44.29	188	21.82	51	34.52	104
Aug. 9	57.681	212	63.19	225	45.233	215	46.17	172	22.33	44	35.56	153
19	57.893	174	65.44	213	45.448	179	47.89	152	22.77	36	37.09	196
29	58.067	133	67.57	196	45.627	140	49.41	130	23.13	26	39.05	231
Sept. 8	58.200	94	69.53	178	45.767	102	50.71	107	23.39	17	41.36	258
18	58.294	56	71.31	156	45.869	64	51.78	84	23.56	7	43.94	275
27	[19] 58.350	20	72.87	133	[20] 45.933	30	52.62	61	[20] 23.63	2	46.69	280
Okt. 7	58.370	12	74.20	109	45.963	2	53.23	39	23.61	12	49.49	274
17	58.358	39	75.29	85	45.961	29	53.62	18	23.49	21	52.23	257
27	58.319	63	76.14	60	45.932	52	53.80	0	23.28	27	54.80	230
Nov. 6	58.256	82	76.74	34	45.880	70	53.80	17	23.01	34	57.10	192
16	58.174	96	77.08	10	45.810	84	53.63	32	22.67	38	59.02	146
26	58.078	105	77.18	15	45.726	93	53.31	44	22.29	41	60.48	94
Dez. 6	57.973	112	77.03	39	45.633	100	52.87	55	21.88	42	61.42	38
16	57.861	113	76.64	61	45.533	101	52.32	65	21.46	41	61.80	21
26	57.748	111	76.03	81	45.432	99	51.67	70	21.05	40	61.59	79
36	57.637		75.22		45.333		50.97		20.65		60.80	
Mittl. Ort	55.431		53.00		42.919		32.71		17.39		60.09	
sec δ, tg δ	1.056		+0.339		1.006		+0.113		2.455		−2.242	

zur Ermittlung der kurzperiodischen Nutationsglieder

N.F.K.	*a*	*b*	*a'*	*b'*	N.F.K.	*a*	*b*	*a'*	*b'*
Nr.	s		″		Nr.	s		″	
10	+ 2.9	−0.14	+20.0	−0.07	474	+3.6	+0.17	−19.8	+0.14
11	+ 2.5	−0.30	+20.0	−0.10	486	+2.4	−0.14	−19.5	+0.23
24	+ 3.9	+0.24	+19.7	−0.18	499	+1.5	−0.20	−18.7	+0.36
51	+ 4.8	+0.20	+18.4	−0.39	524	−0.2	−0.26	−16.9	+0.53
55	+ 4.4	+0.15	+18.3	−0.41	542	+7.4	+0.26	−15.4	+0.64
70	+ 5.1	+0.18	+17.5	−0.49	550	−0.2	−0.18	−14.7	+0.68
76	+ 4.7	+0.13	+17.0	−0.53	560	+5.6	+0.11	−13.4	+0.74
87	+ 5.7	+0.17	+15.8	−0.61	565	+0.6	−0.11	−13.3	+0.75
90	− 1.4	−0.28	+15.7	−0.62	569	−0.1	−0.13	−12.8	+0.77
105	+ 7.9	+0.25	+14.4	−0.70	590	−2.2	−0.17	−11.0	+0.84
115	+ 7.5	+0.20	+13.5	−0.74	606	−1.7	−0.12	− 9.0	+0.89
138	+ 6.3	+0.11	+11.3	−0.83	611	+9.2	+0.14	− 8.3	+0.91
141	+ 0.7	−0.08	+11.3	−0.83	619	−0.1	−0.07	− 7.8	+0.92
146	− 1.0	−0.13	+10.9	−0.84	625	+6.3	+0.06	− 6.8	+0.94
173	+ 8.0	+0.09	+ 6.9	−0.94	639	+0.2	−0.03	− 4.5	+0.97
178	+ 6.0	+0.05	+ 6.3	−0.95	664	−0.4	−0.02	− 2.0	+1.00
191	+ 9.9	+0.07	+ 4.3	−0.98	670	−1.1	−0.02	− 1.5	+1.00
196	− 0.1	−0.03	+ 4.0	−0.98	675	−2.7	−0.01	− 0.6	+1.00
205	+ 8.0	+0.03	+ 2.6	−0.99	695	−1.2	+0.02	+ 1.9	+1.00
234	+ 6.6	−0.01	− 1.0	−1.00	698	+7.0	−0.03	+ 3.0	+0.99
248	+10.3	−0.05	− 3.0	−0.99	723	0.0	+0.05	+ 6.2	+0.95
281	0.0	+0.05	− 6.6	−0.94	729	−1.1	+0.07	+ 6.6	+0.94
284	+ 6.3	−0.06	− 7.2	−0.93	747	−0.2	+0.08	+ 9.1	+0.89
297	− 0.7	+0.09	− 8.7	−0.90	748	+7.0	−0.10	+ 9.5	+0.88
300	+ 7.2	−0.11	− 9.4	−0.88	754	+5.7	−0.08	+10.2	+0.86
310	+ 7.6	−0.14	−10.8	−0.84	759	−2.0	+0.16	+10.9	+0.84
318	− 1.7	+0.17	−11.7	−0.81	770	−0.8	+0.15	+12.4	+0.79
343	+ 1.0	+0.11	−14.3	−0.70	775	+5.4	−0.10	+12.8	+0.77
344	+ 5.3	−0.12	−14.4	−0.69	795	−1.2	+0.23	+14.6	+0.69
348	+ 0.7	+0.13	−14.9	−0.67	805	+5.0	−0.11	+15.4	+0.64
357	+ 5.3	−0.15	−15.8	−0.61	809	+0.8	+0.15	+15.8	+0.62
372	+ 5.4	−0.19	−17.0	−0.53	810	+6.7	−0.25	+16.1	+0.60
387	+ 4.3	−0.13	−18.1	−0.43	837	+1.1	+0.18	+17.7	+0.47
391	+ 1.2	+0.21	−18.3	−0.41	863	+2.1	+0.14	+19.0	+0.31
395	+ 5.2	−0.25	−18.5	−0.39	865	+4.2	−0.18	+19.1	+0.30
433	+ 3.6	−0.18	−19.8	−0.14	874	+1.9	+0.24	+19.5	+0.23
440	+ 3.4	−0.16	−20.0	−0.09	893	+2.5	+0.29	+19.9	+0.10
454	+ 2.8	−0.31	−20.0	+0.04	895	+2.9	+0.16	+20.0	+0.07
459	+ 3.5	+0.34	−20.0	+0.06	903	+3.1	−0.15	+20.0	+0.02
472	+ 2.6	−0.18	−19.9	+0.13					

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^m.52$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$0^h 58^m$	$+85° 53'$	in $0^s.01$	$0''.01$	$0^h 58^m$	$+85° 53'$	in $0^s.01$	$0''.01$	$0^h 58^m$	$+85° 53'$	in $0^s.01$	$0''.01$	$0^h 58^m$	$+85° 52'$	in $0^s.01$	$0''.01$
1	44.31	15.40	+8	+5	35.23	14.96	−6	+5	28.75	9.69	−8	+4	25.87	60.78	−7	−10
2	44.00	15.49	+5	+7	34.96	14.84	−9	+2	28.58	9.44	−11	0	25.87	60.48	−3	−12
3	43.71	15.57	+1	+7	34.69	14.72	−11	−3	28.41	9.18	−11	−5	25.87	60.17	+2	−11
4	43.42	15.64	−4	+6	34.42	14.59	−11	−7	28.25	8.92	−9	−9	25.88	59.87	+7	−8
5	43.12	15.70	−8	+4	34.15	14.46	−8	−11	28.09	8.66	−6	−12	25.89	59.57	+10	−4
6	42.82	15.76	−11	0	33.88	14.32	−4	−13	27.94	8.39	−1	−12	25.91	59.26	+10	+2
7	42.53	15.81	−12	−5	33.62	14.17	+1	−12	27.79	8.12	+4	−11	*)25.94	58.96	+8	+7
8	42.23	15.85	−10	−9	33.36	14.02	+6	−10	27.65	7.85	+8	−7	25.97	58.66	+4	+9
9	41.94	15.89	−7	−12	33.11	13.86	+9	−5	27.51	7.58	+10	−2	26.01	58.36	−1	+10
10	41.64	15.92	−2	−13	32.86	13.70	+10	0	27.38	7.30	+10	+3	26.05	58.06	−6	+9
11	41.34	15.95	+3	−11	32.61	13.53	+9	+6	27.25	7.02	+7	+8	26.10	57.76	−9	+5
12	41.04	15.97	+8	−7	32.36	13.36	+5	+9	27.13	6.74	+2	+10	26.15	57.46	−10	+1
13	40.75	15.98	+10	−2	32.12	13.18	+1	+11	27.01	6.45	−3	+10	26.21	57.17	−8	−3
14	40.45	15.98	+11	+4	31.88	13.00	−4	+10	26.90	6.17	−7	+8	26.28	56.87	−5	−6
15	40.15	15.98	+8	+8	31.64	12.81	−7	+7	26.79	5.88	−9	+4	26.35	56.58	−1	−7
16	39.85	15.97	+4	+11	31.41	12.62	−9	+3	26.69	5.59	−9	0	26.43	56.29	+3	−6
17	39.56	15.96	−1	+11	31.18	12.42	−8	−1	26.60	5.30	−7	−4	26.51	56.00	+7	−4
18	39.26	15.94	−6	+10	30.95	12.22	−6	−4	26.51	5.00	−4	−6	26.60	55.72	+9	−1
19	38.97	15.91	−8	+6	30.73	12.01	−2	−6	26.43	4.71	+1	−6	26.69	55.43	+10	+2
20	38.67	15.87	−9	+2	30.51	11.80	+2	−6	26.35	4.41	+5	−5	26.79	55.15	+9	+5
21	38.37	15.83	−8	−2	30.30	11.58	+6	−5	26.28	4.11	+8	−3	26.89	54.87	+7	+7
22	38.08	15.78	−4	−5	30.09	11.36	+9	−2	26.21	3.81	+10	0	27.00	54.59	+3	+8
23	37.79	15.72	0	−6	29.89	11.13	+10	+1	26.15	3.51	+10	+3	27.12	54.32	−1	+8
24	37.50	15.66	+4	−6	29.69	10.90	+10	+4	26.10	3.20	+8	+6	27.24	54.05	−5	+6
25	37.22	15.59	+7	−4	29.49	10.67	+7	+7	26.05	2.90	+5	+8	27.36	53.79	−9	+3
26	36.93	15.52	+9	−1	29.30	10.43	+4	+8	26.01	2.60	+1	+8	27.49	53.52	−11	−1
27	36.64	15.44	+10	+2	29.11	10.19	0	+8	25.97	2.30	−3	+7	27.63	53.26	−11	−5
28	36.36	15.36	+9	+5	28.93	9.94	−4	+7	25.94	1.99	−7	+5	27.77	53.00	−9	−9
29	36.07	15.27	+6	+7	28.75	9.69	−8	+4	25.91	1.69	−10	+2	27.91	52.74	−5	−11
30	35.79	15.17	+2	+8					25.89	1.38	−11	−3	28.06	52.49	0	−11
31	35.51	15.07	−2	+7					25.88	1.08	−10	−7	28.22	52.24	+5	−9
32	35.23	14.96	−6	+5					25.87	0.78	−7	−10				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 52′ 50″	13.921	+13.885	+85° 53′ 0″	13.930	+13.894	+85° 53′ 10″	13.939	+13.903
60	13.930	+13.894	10	13.939	+13.903	20	13.949	+13.913

$\alpha_{1930.0} = 0^h\ 58^m\ 50^s.18$ $\qquad \delta_{1930.0} = +85°\ 52'\ 57''.42$

*) Tag der doppelten unteren Kulmination: April 7

Na) 43 Hev. Cephei $4^{m}.52$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$0^h 58^m$	+ 85° 52′	in 0.01 0.01	$0^h 58^m$	+ 85° 52′	in 0.01 0.01	$0^h 58^m$	+ 85° 52′	in 0.01 0.01	$0^h 58^m$	+ 85° 52′	in 0.01 0.01
1	28.22	52.24	+ 5 − 9	35.05	46.56	+ 8 + 8	43.95	45.75	− 4 +10	53.19	50.02	− 7 − 3
2	28.38	52.00	+ 9 − 5	35.32	46.46	+ 4 +11	44.26	45.81	− 8 + 7	53.46	50.24	− 3 − 6
3	28.54	51.76	+11 0	35.60	46.36	− 1 +11	44.57	45.87	−10 + 3	53.73	50.46	+ 1 − 6
4	28.71	51.52	+10 + 5	35.88	46.26	− 6 + 9	44.87	45.94	− 9 − 1	54.00	50.69	+ 5 − 5
5	28.89	51.28	+ 6 + 9	36.16	46.17	− 9 + 5	45.18	46.02	− 6 − 5	54.27	50.92	+ 9 − 2
6	29.07	51.05	+ 1 +11	36.44	46.09	−10 0	45.49	46.10	− 2 − 7	54.54	51.16	+10 + 1
7	29.25	50.82	− 4 +10	36.72	46.01	− 8 − 4	45.80	46.18	+ 3 − 7	54.81	51.40	+10 + 4
8	29.43	50.60	− 8 + 7	37.00	45.93	− 5 − 6	46.10	46.27	+ 7 − 5	55.07	51.64	+ 8 + 7
9	29.62	50.38	−10 + 3	37.29	45.86	0 − 7	46.41	46.37	+ 9 − 2	55.33	51.89	+ 5 + 8
10	29.82	50.16	− 9 − 1	37.58	45.80	+ 4 − 6	46.72	46.47	+10 + 1	55.59	52.14	+ 1 + 9
11	30.02	49.95	− 7 − 5	37.87	45.74	+ 8 − 4	47.02	46.58	+10 + 5	55.84	52.40	− 3 + 8
12	30.22	49.74	− 3 − 7	38.16	45.69	+10 − 1	47.33	46.69	+ 7 + 7	56.09	52.66	− 7 + 5
13	30.43	49.54	+ 1 − 7	38.45	45.64	+10 + 2	47.64	46.81	+ 3 + 8	56.34	52.92	−10 + 1
14	30.64	49.34	+ 6 − 6	38.75	45.60	+ 9 + 5	47.94	46.94	− 1 + 8	56.59	53.19	−11 − 3
15	30.86	49.15	+ 9 − 3	39.05	45.56	+ 6 + 7	48.24	47.07	− 5 + 6	56.83	53.46	−10 − 8
16	31.08	48.96	+10 0	39.35	45.53	+ 2 + 8	48.54	47.20	− 9 + 3	57.07	53.74	− 7 −11
17	31.30	48.77	+10 + 4	39.65	45.51	− 2 + 7	48.84	47.34	−11 − 1	57.31	54.02	− 3 −13
18	31.53	48.59	+ 8 + 6	39.95	45.49	− 6 + 5	49.14	47.48	−11 − 6	57.54	54.31	+ 2 −12
19	31.76	48.41	+ 5 + 8	40.26	45.47	−10 + 1	49.44	47.63	− 9 −10	57.77	54.60	+ 6 −10
20	31.99	48.24	0 + 8	40.57	45.46	−11 − 3	49.74	47.78	− 6 −12	58.00	54.89	+10 − 5
21	32.23	48.07	− 4 + 7	40.87	45.46	−11 − 7	50.04	47.94	− 1 −13	58.23	55.18	+10 + 1
22	32.47	47.91	− 8 + 4	41.18	45.46	− 8 −11	50.33	48.11	+ 4 −11	58.45	55.48	+ 8 + 6
23	32.72	47.75	−10 0	41.48	45.47	− 4 −12	50.63	48.28	+ 8 − 7	58.67	55.78	+ 4 + 9
24	32.97	47.60	−11 − 4	41.79	45.48	+ 1 −12	50.92	48.45	+10 − 2	58.89	56.09	− 1 +10
25	33.22	47.45	−10 − 8	42.10	45.50	+ 6 − 9	51.21	48.63	+10 + 3	59.10	56.40	− 5 + 9
26	33.47	47.31	− 6 −11	42.41	45.53	+10 − 5	51.50	48.82	+ 7 + 8	59.31	56.71	− 9 + 6
27	33.72	47.17	− 2 −12	42.71	45.56	+11 + 1	51.78	49.01	+ 3 +11	59.51	57.03	−10 + 2
28	33.98	47.04	+ 3 −11	43.02	45.60	+ 9 + 6	52.07	49.20	− 2 +11	59.71	57.35	− 8 − 2
29	34.24	46.91	+ 8 − 7	43.33	45.64	+ 6 +10	52.35	49.40	− 7 + 8	59.91	57.67	− 5 − 5
30	34.51	46.79	+10 − 2	43.64	45.69	+ 1 +11	52.63	49.60	− 9 + 4	60.10	57.99	− 1 − 6
31	34.78	46.67	+10 + 4	43.95	45.75	− 4 +10	52.91	49.81	− 9 0	60.29	58.32	+ 4 − 6
32	35.05	46.56	+ 8 + 8				53.19	50.02	− 7 − 3	60.48	58.65	+ 8 − 3

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 52′ 40″	13.911	+13.875	+85° 52′ 50″	13.921	+13.885
50	13.921	+13.885	60	13.930	+13.894

$\alpha_{1930.0} = 0^h\ 58^m\ 50^s.18$ $\delta_{1930.0} = +85°\ 52'\ 57''.42$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^{m}.52$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder
	$0^{h}59^{m}$	$+85°52'$	in $0^{s}.01$ $0''.01$	$0^{h}59^{m}$	$+85°53'$	in $0^{s}.01$ $0''.01$
1	0.48	58.65	+8 −3	4.32	9.59	+10 +5
2	0.67	58.98	+10 0	4.38	9.98	+8 +8
3	0.85	59.32	+11 +3	4.44	10.36	+4 +9
4	1.03	59.66	+10 +6	4.50	10.75	0 +9
5	1.20	60.00	+7 +8	4.55	11.14	−4 +8
6	1.37	60.34	+3 +9	4.59 / 4.63	11.52 / 11.91	−8 +4 / −10 0
7	1.54	60.69	−2 +9	4.66	12.30	−11 −4
8	1.70	61.04	−6 +6	4.69	12.69	−9 −8
9	1.86	61.39	−9 +3	4.71	13.08	−6 −11
10	2.01	61.75	−11 −1	4.73	13.47	−2 −12
11	2.16	62.10	−11 −6	4.75	13.86	+3 −11
12	2.31	62.46	−8 −10	4.76	14.25	+7 −8
13	2.45	62.82	−5 −12	4.77	14.64	+10 −3
14	2.59	63.18	0 −13	4.78	15.02	+10 +2
15	2.73	63.54	+5 −11	4.78	15.41	+7 +6
16	2.86	63.91	+8 −7	4.78	15.80	+3 +9
17	2.99	64.28	+10 −2	4.77	16.19	−2 +9
18	3.11	64.65	+9 +3	4.75	16.57	−7 +7
19	3.23	65.03	+6 +7	4.73	16.96	−10 +4
20	3.35	65.40	+1 +9	4.71	17.34	−10 0
21	3.46	65.77	−4 +9	4.68	17.72	−8 −4
22	3.57	66.15	−8 +7	4.65	18.11	−5 −7
23	3.67	66.53	−10 +3	4.61	18.49	0 −7
24	3.77	66.91	−10 −1	4.57	18.87	+5 −6
25	3.86	67.29	−7 −5	4.52	19.25	+8 −3
26	3.95	67.67	−3 −7	4.47	19.62	+11 0
27	4.03	68.05	+2 −6	4.41	20.00	+11 +4
28	4.11	68.43	+6 −5	4.35	20.37	+9 +7
29	4.19	68.82	+10 −2	4.28	20.74	+6 +9
30	4.26	69.20	+11 +2	4.21	21.11	+2 +9
31	4.32	69.59	+10 +5	4.14	21.47	−3 +8
32				4.06	21.84	−6 +6

Tag	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$0^{h}58^{m}$	$+85°53'$	in $0^{s}.01$ $0''.01$	$0^{h}58^{m}$	$+85°53'$	in $0^{s}.01$ $0''.01$
1	64.06	21.84	−6 +6	59.62	31.47	−11 −5
2	63.98	22.20	−9 +2	59.41	31.73	−9 −9
3	63.89	22.56	−11 −2	59.20	31.99	−5 −11
4	63.80	22.92	−10 −6	58.98	32.24	0 −12
5	63.70	23.28	−7 −10	58.76	32.49	+4 −10
6	63.60	23.63	−3 −12	58.53	32.73	+8 −7
7	63.49	23.98	+1 −12	58.30	32.97	+10 −2
8	63.38	24.33	+6 −9	58.07	33.20	+10 +4
9	63.26	24.68	+9 −5	57.83	33.42	+7 +8
10	63.14	25.03	+10 0	57.59	33.64	+2 +10
11	63.01	25.37	+9 +5	57.35	33.86	−3 +10
12	62.88	25.71	+5 +9	57.11	34.07	−7 +8
13	62.75	26.05	0 +10	56.86	34.27	−10 +4
14	62.61	26.38	−5 +9	56.61	34.47	−10 −1
15	62.47	26.71	−9 +6	56.36	34.67	−8 −5
16	62.32	27.04	−10 +1	56.10	34.86	−4 −7
17	62.17	27.36	−10 −3	55.84	35.04	+1 −8
18	62.02	27.68	−6 −6	55.58	35.22	+6 −6
19	61.86	27.99	−2 −8	55.32	35.39	+9 −3
20	61.69	28.30	+3 −7	55.05	35.55	+11 +1
21	61.52	28.61	+7 −5	54.78	35.71	+10 +5
22	61.35	28.92	+10 −1	54.51	35.86	+8 +8
23	61.18	29.22	+11 +3	54.24	36.01	+5 +9
24	61.00	29.52	+10 +6	53.97	36.15	0 +9
25	60.81	29.81	+7 +8	53.69	36.29	−4 +8
26	60.62	30.10	+3 +9	53.41	36.42	−7 +5
27	60.43	30.38	−1 +9	53.13	36.54	−10 +1
28	60.23	30.66	−5 +7	52.84	36.66	−11 −4
29	60.03	30.93	−8 +3	52.56	36.77	−10 −8
30	59.83	31.20	−10 −1	52.27	36.87	−7 −11
31	59.62	31.47	−11 −5	51.99	36.97	−3 −12
32				51.71	37.06	+2 −12

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 52′ 50″	13.921	+13.885	+85° 53′ 10″	13.939	+13.903	+85° 53′ 30″	13.958	+13.922
60	13.930	+13.894	20	13.949	+13.913	40	13.968	+13.932

$\alpha_{1930.0} = 0^{h}\ 58^{m}\ 50^{s}.18$ $\delta_{1930.0} = +85°\ 52'\ 57''.42$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^{m}.12$

Tag	Januar AR.	Januar Dekl.	Januar ☾Glieder		Februar AR.	Februar Dekl.	Februar ☾Glieder		März AR.	März Dekl.	März ☾Glieder		April AR.	April Dekl.	April ☾Glieder	
	$1^{h}36^{m}$	+88° 56′	in 0.01s	in 0.01″	$1^{h}35^{m}$	+88° 55′	in 0.01s	in 0.01″	$1^{h}35^{m}$	+88° 55′	in 0.01s	in 0.01″	$1^{h}35^{m}$	+88° 55′	in 0.01s	in 0.01″
1	42.69	1.47	+30	+4	67.15	62.87	−22	+6	38.86	58.95	−30	+5	22.18	50.67	−28	−9
2	41.60	1.61	+18	+6	66.01	62.81	−35	+3	38.04	58.73	−40	+1	21.98	50.37	−12	−12
3	40.50	1.75	+3	+7	64.88	62.74	−42	−1	37.24	58.51	−42	−3	21.79	50.06	+7	−12
4	39.39	1.88	−13	+7	63.76	62.67	−42	−5	36.45	58.28	−36	−7	21.63	49.76	+24	−9
5	38.28	2.00	−28	+5	62.64	62.59	−33	−10	35.68	58.05	−23	−11	21.49	49.46	+36	−5
6	37.16	2.12	−40	+2	61.53	62.51	−18	−12	34.92	57.82	−6	−13	21.37	49.16	+38	0
7	36.04	2.23	−44	−3	60.42	62.42	+1	−13	34.18	57.58	+13	−12	21.28	48.85	+31	+5
8	34.91	2.33	−40	−7	59.33	62.32	+20	−11	33.47	57.34	+29	−8	21.21	48.55	+17	+9
9	33.77	2.43	−28	−11	58.24	62.22	+33	−6	32.77	57.09	+37	−4	21.16	48.24	−2	+10
10	32.63	2.52	−10	−13	57.16	62.11	+38	−1	32.08	56.84	+36	+2	21.13	47.94	−20	+10
11	31.49	2.60	+10	−12	56.09	62.00	+33	+4	31.42	56.59	+26	+7	21.12	47.64	−32	+7
12	30.34	2.68	+27	−9	55.03	61.88	+21	+9	30.77	56.34	+10	+10	21.14	47.34	−37	+3
13	29.19	2.75	+38	−4	53.98	61.75	+4	+11	30.15	56.08	−8	+10	21.17	47.03	−32	−2
14	28.03	2.82	+39	+2	52.94	61.61	−14	+11	29.54	55.82	−24	+9	21.23	46.73	−21	−5
15	26.87	2.88	+30	+7	51.91	61.47	−27	+8	28.96	55.55	−33	+5	21.31	46.43	−5	−7
16	25.71	2.93	+16	+11	50.89	61.33	−34	+4	28.39	55.28	−34	+1	*)21.41	46.13	+11	−7
17	24.55	2.98	−2	+12	49.89	61.18	−32	0	27.85	55.01	−28	−3	21.54	45.83	+25	−6
18	23.38	3.02	−19	+11	48.89	61.02	−22	−3	27.32	54.73	−14	−6	21.68	45.53	+35	−3
19	22.22	3.05	−30	+7	47.91	60.85	−8	−6	26.82	54.46	+2	−7	21.85	45.23	+38	0
20	21.05	3.08	−33	+3	46.94	60.68	+8	−6	26.33	54.18	+18	−6	22.04	44.93	+35	+3
21	19.88	3.10	−29	−1	45.98	60.51	+23	−6	25.87	53.90	+29	−4	22.25	44.63	+26	+6
22	18.72	3.11	−17	−5	45.04	60.33	+33	−4	25.43	53.62	+37	−2	22.48	44.34	+13	+8
23	17.55	3.12	−2	−6	44.11	60.15	+37	−1	25.00	53.33	+37	+1	22.74	44.05	−3	+8
24	16.39	3.12	+13	−6	43.20	59.96	+36	+2	24.60	53.04	+32	+5	23.01	43.76	−19	+7
25	15.22	3.11	+26	−5	42.30	59.77	+28	+5	24.23	52.75	+21	+7	23.30	43.47	−32	+4
26	14.06	3.09	+34	−3	41.42	59.57	+15	+7	23.87	52.46	+7	+8	23.62	43.18	−40	0
27	12.90	3.07	+37	0	40.55	59.37	0	+8	23.53	52.17	−9	+8	23.95	42.90	−40	−4
28	11.75	3.04	+33	+3	39.70	59.16	−16	+7	23.22	51.87	−24	+6	24.31	42.61	−33	−8
29	10.59	3.01	+24	+6	38.86	58.95	−30	+5	22.93	51.57	−36	+3	24.68	42.33	−18	−11
30	9.44	2.97	+10	+8					22.66	51.27	−41	−1	25.08	42.05	0	−12
31	8.29	2.92	−6	+8					22.41	50.97	−39	−5	25.49	41.77	+18	−10
32	7.15	2.87	−22	+6					22.18	50.67	−28	−9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 55′ 40″	53.440	+53.430	+88° 55′ 50″	53.578	+53.569	+88° 56′ 0″	53.718	+53.709
50	53.578	+53.569	60	53.718	+53.709	10	53.858	+53.849

$\alpha_{1930.0} = 1^{h}\ 36^{m}\ 52^{s}.62$ $\delta_{1930.0} = +88°\ 55'\ 42''.65$

*) Tag der doppelten unteren Kulmination: April 16

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^m.12$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$1^h\ 35^m$	+88° 55′	in 0.01^s $0.01''$	$1^h\ 35^m$	+88° 55′	in 0.01^s $0.01''$	$1^h\ 36^m$	+88° 55′	in 0.01^s $0.01''$	$1^h\ 36^m$	+88° 55′	in 0.01^s $0.01''$
	s	″		s	″		s	″		s	″	
1	25.49	41.77	+18 −10	47.08	34.84	+31 + 7	19.15	32.32	−14 +11	55.51	34.78	−27 − 2
2	25.93	41.50	+33 − 6	48.02	34.68	+15 +10	20.32	32.32	−28 + 9	56.65	34.94	−14 − 5
3	26.38	41.23	+39 − 1	48.96	34.53	− 4 +11	21.49	32.33	−35 + 4	57.78	35.11	+ 3 − 7
4	26.86	40.96	+36 + 4	49.92	34.38	−21 +10	22.66	32.34	−33 0	58.91	35.28	+19 − 6
5	27.35	40.69	+24 + 8	50.89	34.24	−32 + 6	23.83	32.35	−23 − 4	60.03	35.46	+32 − 4
6	27.86	40.43	+ 7 +10	51.87	34.10	−36 + 2	25.01	32.37	− 8 − 7	61.14	35.64	+39 − 1
7	28.39	40.17	−12 +10	52.86	33.97	−30 − 2	26.19	32.40	+ 9 − 7	62.25	35.83	+38 + 2
8	28.94	39.91	−27 + 8	53.86	33.84	−18 − 6	27.37	32.43	+24 − 6	63.35	36.02	+32 + 5
9	29.51	39.65	−35 + 4	54.88	33.71	− 2 − 7	28.55	32.47	+34 − 3	64.44	36.22	+20 + 8
10	30.09	39.40	−35 0	55.90	33.59	+15 − 7	29.73	32.51	+38 0	65.53	36.42	+ 5 + 9
11	30.69	39.15	−27 − 4	56.93	33.48	+28 − 6	30.92	32.56	+36 + 3	66.61	36.63	−11 + 8
12	31.32	38.90	−12 − 7	57.98	33.37	+36 − 2	32.10	32.61	+27 + 6	67.69	36.84	−26 + 6
13	31.96	38.66	+ 4 − 8	59.03	33.27	+37 + 1	33.29	32.67	+14 + 8	68.76	37.05	−37 + 2
14	32.61	38.42	+20 − 7	60.09	33.17	+32 + 4	34.47	32.73	− 2 + 8	69.82	37.27	−42 − 2
15	33.29	38.19	+31 − 4	61.16	33.08	+22 + 7	35.65	32.80	−18 + 7	70.87	37.49	−39 − 6
16	33.98	37.96	+38 − 1	62.23	32.99	+ 8 + 8	36.84	32.87	−32 + 4	71.92	37.72	−29 −10
17	34.69	37.73	+37 + 2	63.32	32.91	− 8 + 8	38.02	32.95	−40 + 1	72.95	37.95	−13 −13
18	35.41	37.51	+30 + 5	64.41	32.83	−23 + 6	39.21	33.04	−42 − 4	73.98	38.19	+ 5 −13
19	36.15	37.29	+18 + 7	65.51	32.76	−36 + 3	40.39	33.13	−37 − 8	75.00	38.43	+22 −11
20	36.90	37.08	+ 2 + 8	66.62	32.69	−42 − 1	41.57	33.22	−24 −12	76.01	38.67	+34 − 6
21	37.67	36.87	−14 + 8	67.73	32.63	−41 − 6	42.75	33.32	− 6 −13	77.01	38.92	+37 − 1
22	38.46	36.66	−28 + 5	68.85	32.57	−32 − 9	43.92	33.43	+13 −12	78.00	39.17	+30 + 4
23	39.26	36.46	−38 + 2	69.97	32.52	−16 −12	45.10	33.54	+28 − 9	78.98	39.43	+16 + 9
24	40.07	36.26	−42 − 2	71.10	32.48	+ 3 −12	46.27	33.66	+37 − 4	79.95	39.69	− 1 +10
25	40.90	36.07	−38 − 7	72.24	32.44	+20 −10	47.44	33.78	+37 + 2	80.91	39.95	−19 +10
26	41.74	35.88	−26 −10	73.38	32.41	+34 − 6	48.61	33.91	+27 + 7	81.87	40.22	−31 + 7
27	42.60	35.70	− 8 −12	74.53	32.38	+39 − 1	49.77	34.04	+12 +10	82.81	40.49	−36 + 3
28	43.47	35.52	+11 −11	75.68	32.36	+35 + 5	50.93	34.18	− 7 +11	83.74	40.77	−32 − 1
29	44.35	35.34	+28 − 8	76.83	32.34	+22 + 9	52.08	34.32	−23 +10	84.66	41.05	−19 − 5
30	45.25	35.17	+38 − 3	77.99	32.33	+ 4 +11	53.23	34.47	−33 + 6	85.57	41.33	− 3 − 7
31	46.16	35.00	+39 + 2	79.15	32.32	−14 +11	54.37	34.62	−35 + 2	86.47	41.62	+14 − 6
32	47.08	34.84	+31 + 7				55.51	34.78	−27 − 2	87.36	41.91	+29 − 5

δ	sec δ	tg δ
+88° 55′ 30″	53.302	+53.292
40	53.440	+53.430

δ	sec δ	tg δ
+88° 55′ 40″	53.440	+53.430
50	53.578	+53.569

$\alpha_{1930.0} = 1^h\ 36^m\ 52^s.62$ $\delta_{1930.0} = +88°\ 55'\ 42''.65$

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^{m}.12$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$1^h 37^m$	+88° 55′	in 0.01^s 0.01″	$1^h 37^m$	+88° 55′	in 0.01^s 0.01″	$1^h 37^m$	+88° 56′	in 0.01^s 0.01″	$1^h 37^m$	+88° 56′	in 0.01^s 0.01″
1	27.36	41.91	+29 − 5	47.83	52.05	+39 + 4	53.64	4.33	−23 + 7	41.85	14.88	−40 − 3
2	28.23	42.21	+38 − 2	48.28	52.42	+30 + 7	53.51	4.72	−34 + 4	41.18	15.19	−34 − 8
3	29.09	42.51	+40 + 2	48.71	52.79	+17 + 9	53.37	5.10	−40 − 1	40.49	15.49	−21 −11
4	29.95	42.81	+36 + 5	49.13	53.17	+ 2 + 9	53.22	5.47	−38 − 5	39.78	15.79	− 3 −12
5	30.79	43.12	+25 + 7	49.53	53.54	−14 + 8	53.04	5.85	−29 − 9	39.06	16.08	+14 −11
6	31.61	43.43	+11 + 9	49.92	53.92	−28 + 6	52.84	6.23	−15 −11	38.32	16.37	+29 − 8
7	32.43	43.74	− 5 + 9	50.29	54.30	−37 + 2	52.63	6.60	+ 3 −12	37.57	16.65	+37 − 3
8	33.23	44.05	−20 + 7	50.64	54.68	−40 − 2	52.39	6.97	+21 −10	36.80	16.93	+37 + 2
9	34.02	44.37	−32 + 4	50.98	55.06	−36 − 7	52.14	7.34	+33 − 6	36.01	17.21	+27 + 7
10	34.79	44.69	−40 0	51.30	55.44	−24 −10	51.87	7.71	+38 − 1	35.21	17.48	+11 +10
11	35.56	45.02	−40 − 4	51.60	55.82	− 8 −12	51.58	8.08	+33 + 4	34.39	17.74	− 8 +11
12	36.31	45.35	−33 − 9	51.88	56.21	+10 −12	51.26	8.44	+20 + 8	33.56	18.00	−26 + 9
13	37.05	45.68	−19 −12	52.15	56.59	+26 − 9	50.93	8.81	+ 2 +10	32.71	18.26	−36 + 5
14	37.77	46.01	− 2 −13	52.39	56.98	+36 − 5	50.59	9.17	−17 +10	31.85	18.51	−37 0
15	38.48	46.35	+16 −11	52.62	57.36	+36 0	50.22	9.53	−31 + 7	30.98	18.76	−30 − 4
16	39.18	46.69	+30 − 8	{52.84 {53.03	57.75 58.14	+27 + 5} +12 + 9}	49.83	9.89	−38 + 3	30.09	19.00	−15 − 7
17	39.86	47.03	+36 − 3	53.21	58.53	− 6 +10	49.43	10.24	−37 − 2	29.18	19.24	+ 2 − 8
18	40.53	47.37	+34 + 2	53.36	58.92	−24 + 9	49.01	10.59	−25 − 5	28.26	19.47	+20 − 7
19	41.18	47.72	+22 + 7	53.50	59.30	−35 + 5	48.57	10.94	− 8 − 7	27.33	19.69	+33 − 4
20	41.82	48.07	+ 5 + 9	53.63	59.69	−38 + 1	48.11	11.29	+ 9 − 8	26.39	19.91	+39 − 1
21	42.44	48.42	−14 +10	53.73	60.08	−32 − 3	47.63	11.63	+26 − 6	25.43	20.13	+39 + 3
22	43.05	48.77	−29 + 8	53.81	60.47	−18 − 6	47.13	11.97	+37 − 3	24.47	20.34	+31 + 6
23	43.64	49.13	−37 + 4	53.88	60.86	0 − 7	46.62	12.31	+40 + 1	23.49	20.54	+19 + 8
24	44.22	49.48	−37 0	53.93	61.24	+17 − 7	46.08	12.64	+37 + 4	22.49	20.74	+ 3 + 9
25	44.78	49.84	−26 − 4	53.96	61.63	+31 − 5	45.53	12.97	+27 + 7	21.49	20.93	−13 + 8
26	45.33	50.21	−11 − 6	53.97	62.02	+39 − 2	44.96	13.30	+13 + 9	20.47	21.12	−27 + 6
27	45.86	50.57	+ 7 − 7	53.96	62.41	+40 + 2	44.38	13.62	− 3 + 9	19.45	21.30	−37 + 2
28	46.38	50.94	+24 − 6	53.93	62.79	+34 + 6	43.77	13.94	−18 + 8	18.41	21.48	−41 − 2
29	46.88	51.30	+36 − 3	53.89	63.18	+23 + 8	43.15	14.26	−31 + 5	17.37	21.65	−37 − 6
30	47.36	51.67	+41 0	53.82	63.56	+ 8 + 9	42.51	14.57	−39 + 1	16.31	21.81	−27 −10
31	47.83	52.05	+39 + 4	53.74	63.95	− 8 + 9	41.85	14.88	−40 − 3	15.25	21.97	−11 −12
32				53.64	64.33	−23 + 7				14.18	22.12	+ 6 −12

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 55′ 40″	53.440	+53.430	+88° 56′ 0″	53.718	+53.709	+88° 56′ 20″	53.999	+53.990
50	53.578	+53.569	10	53.858	+53.849	30	54.141	+54.132

$\alpha_{1930.0} = 1^h\ 36^m\ 52^s.62 \qquad \delta_{1930.0} = +88°\ 55'\ 42''.65$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nc) Grb 750 $6^m.70$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder	
	$4^h 13^m$	$+85° 22'$	in $0^s.01$	in $0''.01$	$4^h 13^m$	$+85° 22'$	in $0^s.01$	in $0''.01$
1	60.75	24.61	+ 8	− 2	55.44	31.75	− 1	+ 9
2	60.64	24.91	+ 7	+ 2	55.22	31.90	− 5	+ 9
3	60.52	25.20	+ 5	+ 6	54.99	32.04	− 9	+ 6
4	60.40	25.49	+ 1	+ 8	54.76	32.18	−12	+ 2
5	60.28	25.77	− 3	+ 9	54.53	32.31	−12	− 2
6	60.15	26.05	− 7	+ 8	54.29	32.44	−11	− 7
7	60.02	26.33	−10	+ 5	54.06	32.56	− 7	−11
8	59.89	26.60	−12	0	53.82	32.67	− 2	−12
9	59.75	26.87	−12	− 4	53.58	32.78	+ 3	−11
10	59.61	27.14	− 9	− 9	53.34	32.88	+ 7	− 7
11	59.46	27.40	− 5	−11	53.09	32.97	+ 9	− 2
12	59.31	27.66	0	−12	52.85	33.06	+ 9	+ 4
13	59.15	27.91	+ 5	− 9	52.60	33.14	+ 7	+ 8
14	58.99	28.15	+ 9	− 5	52.35	33.22	+ 4	+11
15	58.82	28.39	+10	+ 1	52.11	33.29	0	+12
16	58.65	28.63	+ 9	+ 6	51.86	33.36	− 4	+ 9
17	58.48	28.87	+ 7	+10	51.61	33.42	− 6	+ 5
18	58.30	29.10	+ 3	+12	51.36	33.47	− 6	+ 1
19	58.12	29.32	− 1	+11	51.10	33.52	− 5	− 4
20	57.93	29.54	− 5	+ 8	50.85	33.56	− 2	− 7
21	57.74	29.75	− 6	+ 4	50.59	33.59	+ 1	− 9
22	57.55	29.96	− 6	− 1	50.34	33.62	+ 4	− 9
23	57.36	30.16	− 4	− 5	50.08	33.64	+ 7	− 7
24	57.16	30.36	− 1	− 8	49.83	33.65	+ 9	− 4
25	56.96	30.55	+ 2	− 9	49.57	33.66	+ 9	0
26	56.75	30.74	+ 5	− 8	49.32	33.66	+ 7	+ 4
27	56.54	30.92	+ 7	− 6	49.06	33.66	+ 5	+ 7
28	56.33	31.10	+ 8	− 3	48.81	33.65	+ 1	+ 9
29	56.11	31.27	+ 8	+ 1	48.55	33.63	− 3	+ 9
30	55.89	31.44	+ 6	+ 5				
31	55.67	31.60	+ 3	+ 7				
32	55.44	31.75	− 1	+ 9				

Tag	März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$4^h 13^m$	$+85° 22'$	in $0^s.01$	in $0''.01$	$4^h 13^m$	$+85° 22'$	in $0^s.01$	in $0''.01$
1	48.55	33.63	− 3	+ 9	41.40	30.23	−11	− 3
2	48.30	33.61	− 7	+ 8	41.21	30.04	− 9	− 8
3	48.04	33.58	−10	+ 4	41.02	29.85	− 6	−11
4	47.79	33.54	−12	0	40.84	29.65	− 1	−11
5	47.54	33.50	−11	− 5	40.66	29.44	+ 4	−10
6	47.29	33.45	− 9	− 9	40.48	29.23	+ 8	− 6
7	47.04	33.40	− 4	−12	40.31	29.02	+ 9	− 1
8	46.79	33.34	+ 1	−12	40.14	28.81	+ 8	+ 5
9	46.54	33.28	+ 5	− 9	39.98	28.59	+ 6	+ 9
10	46.30	33.21	+ 8	− 4	39.82	28.36	+ 2	+11
11	46.05	33.13	+ 9	+ 1	39.66	28.13	− 2	+11
12	45.80	33.05	+ 8	+ 6	39.51	27.90	− 6	+ 8
13	45.56	32.96	+ 5	+10	39.36	27.67	− 7	+ 4
14	45.33	32.86	+ 1	+11	39.22	27.43	− 7	− 1
15	45.09	32.76	− 3	+10	39.08	27.19	− 5	− 5
16	44.85	32.66	− 6	+ 7	38.95	26.94	− 2	− 8
17	44.62	32.55	− 7	+ 2	38.82	26.69	+ 2	− 9
18	44.39	32.43	− 6	− 2	38.69	26.44	+ 5	− 8
19	44.15	32.31	− 4	− 6	38.57	26.19	+ 8	− 6
20	43.92	32.18	0	− 8	38.45	25.93	+ 9	− 3
21	43.70	32.04	+ 3	− 9	38.34	25.67	+ 9	+ 1
22	43.48	31.90	+ 6	− 8	38.23	25.41	+ 7	+ 4
23	43.26	31.76	+ 8	− 5	38.12	25.14	+ 4	+ 7
24	43.04	31.61	+ 9	− 2	38.02	24.88	0	+ 9
25	42.82	31.45	+ 8	+ 2	37.93	24.61	− 4	+ 9
26	42.61	31.29	+ 6	+ 6	37.84	24.34	− 8	+ 7
27	42.40	31.13	+ 3	+ 8	37.76	24.07	−10	+ 4
28	42.19	30.96	− 1	+ 9	37.68	23.80	−11	− 1
29	41.99	30.78	− 5	+ 9	37.61	23.52	−10	− 6
30	41.79	30.60	− 9	+ 6	37.54	23.24	− 7	− 9
31	41.59	30.42	−11	+ 2	37.48	22.96	− 2	−11
32	41.40	30.23	−11	− 3				

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 22′ 20″	12.394	+12.354	+85° 22′ 30″	12.402	+12.361
30	12.402	+12.361	40	12.409	+12.369

$\alpha_{1930.0} = 4^h\ 13^m\ 53^s.17$ $\delta_{1930.0} = +85°\ 22'\ 8''.50$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nc) Grb 750 6m.70

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$4^h 13^m$	+85° 22′	in 0.01s 0.01″	$4^h 13^m$	+85° 22′	in 0.01s 0.01″	$4^h 13^m$	+85° 22′	in 0.01s 0.01″	$4^h 13^m$	+85° 22′	in 0.01s 0.01″
1	37.48	22.96	− 2 −11	37.93	14.07	+10 + 1	42.61	6.78	+ 4 +11	50.66	2.56	− 7 + 2
2	37.42	22.68	+ 3 −11	38.02	13.79	+ 9 + 6	42.83	6.58	0 +12	50.96	2.49	− 6 − 2
3	37.36	22.40	+ 7 − 7	38.12	13.52	+ 6 +10	43.05	6.39	− 4 + 9	51.26	2.43	− 3 − 6
4	37.31	22.11	+ 9 − 3	38.22	13.25	+ 2 +11	43.27	6.20	− 7 + 5	51.56	2.37	0 − 8
5	37.27	21.83	+10 + 3	38.33	12.98	− 2 +11	43.50	6.01	− 7 0	51.86	2.32	+ 4 − 9
6	37.23	21.54	+ 8 + 8	38.44	12.71	− 6 + 7	43.73	5.83	− 5 − 4	52.16	2.27	+ 7 − 7
7	37.19	21.26	+ 4 +11	38.56	12.44	− 7 + 3	43.96	5.65	− 2 − 7	52.46	2.23	+ 9 − 4
8	37.16	20.97	0 +11	38.68	12.17	− 7 − 2	44.20	5.48	+ 1 − 9	52.77	2.19	+ 9 − 1
9	37.14	20.68	− 4 + 9	38.80	11.91	− 5 − 6	44.44	5.31	+ 5 − 9	53.08	2.16	+ 9 + 3
10	37.12	20.39	− 7 + 6	38.93	11.65	− 1 − 8	44.68	5.14	+ 8 − 7	53.38	2.13	+ 6 + 6
11	37.10	20.10	− 8 + 1	39.06	11.39	+ 2 − 9	44.93	4.98	+ 9 − 3	53.69	2.11	+ 2 + 8
12	37.09	19.81	− 6 − 4	39.20	11.13	+ 6 − 8	45.18	4.82	+ 9 0	54.00	2.09	− 2 + 9
13	37.09	19.52	− 4 − 7	39.34	10.87	+ 8 − 6	45.43	4.67	+ 7 + 4	54.31	2.07	− 6 + 8
14	37.09	19.23	0 − 9	39.49	10.62	+ 9 − 2	45.68	4.52	+ 4 + 7	54.62	2.06	− 9 + 5
15	37.09	18.94	+ 4 − 9	39.64	10.37	+ 8 + 2	45.94	4.37	0 + 9	54.93	2.05	−12 + 1
16	37.10	18.65	+ 7 − 7	39.80	10.12	+ 6 + 5	46.20	4.23	− 4 + 9	55.24	2.05	−12 − 4
17	37.12	18.36	+ 8 − 4	39.96	9.88	+ 3 + 8	46.46	4.09	− 8 + 7	55.56	2.05	−10 − 8
18	37.14	18.07	+ 9 − 1	40.12	9.64	− 1 + 9	46.72	3.96	−11 + 4	55.87	2.06	− 7 −11
19	37.16	17.78	+ 8 + 3	40.29	9.40	− 5 + 8	46.99	3.83	−12 − 1	56.18	2.07	− 2 −12
20	37.19	17.49	+ 5 + 6	40.46	9.16	− 9 + 6	47.26	3.71	−12 − 6	56.50	2.08	+ 3 −11
21	37.22	17.20	+ 2 + 8	40.64	8.93	−11 + 2	47.53	3.59	− 9 −10	56.81	2.10	+ 7 − 7
22	37.26	16.91	− 2 + 9	40.82	8.70	−12 − 2	47.81	3.48	− 5 −12	57.13	2.13	+ 9 − 2
23	37.31	16.62	− 7 + 8	41.01	8.47	−10 − 7	48.09	3.37	0 −12	57.45	2.16	+ 8 + 4
24	37.36	16.33	−10 + 5	41.20	8.25	− 7 −11	48.37	3.26	+ 5 − 9	57.76	2.20	+ 6 + 9
25	37.41	16.05	−11 + 1	41.39	8.03	− 2 −12	48.65	3.16	+ 9 − 4	58.08	2.24	+ 2 +11
26	*)37.47	15.76	−11 − 4	41.58	7.81	+ 3 −11	48.93	3.06	+10 + 1	58.40	2.29	− 2 +11
27	37.54	15.48	− 9 − 8	41.78	7.60	+ 7 − 7	49.21	2.96	+ 9 + 7	58.71	2.34	− 5 + 8
28	37.61	15.19	− 5 −11	41.98	7.39	+10 − 2	49.50	2.87	+ 5 +10	59.03	2.40	− 7 + 4
29	37.68	14.91	0 −11	42.19	7.18	+10 + 4	49.79	2.78	+ 1 +12	59.35	2.46	− 6 − 1
30	37.76	14.63	+ 5 − 9	42.40	6.98	+ 8 + 9	50.08	2.70	− 3 +11	59.66	2.53	− 4 − 5
31	37.84	14.35	+ 9 − 5	42.61	6.78	+ 4 +11	50.37	2.63	− 6 + 7	59.98	2.60	− 1 − 8
32	37.93	14.07	+10 + 1				50.66	2.56	− 7 + 2	60.30	2.68	+ 3 − 9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 22′ 0″	12.379	+12.339	+85° 22′ 10″	12.387	+12.346	+85° 22′ 20″	12.394	+12.354
10	12.387	+12.346	20	12.394	+12.354	30	12.402	+12.361

$\alpha_{1930.0} = 4^h\ 13^m\ 53^s.17$ $\delta_{1930.0} = +85^\circ\ 22'\ 8''.50$

*) Tag der doppelten unteren Kulmination: Mai 26

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nc) Grb 750 $6^m.70$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$4^h 14^m$	+85° 22′	in $0^s.01$ | $0''.01$	$4^h 14^m$	+85° 22′	in $0^s.01$ | $0''.01$	$4^h 14^m$	+85° 22′	in $0^s.01$ | $0''.01$	$4^h 14^m$	+85° 22′	in $0^s.01$ | $0''.01$
1	$0^s.30$	$2''.68$	+ 3 − 9	$9^s.42$	$6''.98$	+10 − 3	$16^s.85$	$15''.11$	+ 4 + 9	$20^s.71$	$25''.48$	−10 + 4
2	0.61	2.76	+ 6 − 8	9.70	7.19	+10 0	17.04	15.42	0 + 9	20.76	25.83	−11 − 1
3	0.93	2.84	+ 9 − 5	9.98	7.40	+ 9 + 4	17.23	15.73	− 5 + 9	20.81	26.17	−10 − 5
4	1.25	2.93	+10 − 2	10.25	7.62	+ 6 + 7	17.41	16.04	− 8 + 6	20.85	26.52	− 8 − 9
5	1.56	3.02	+ 9 + 2	10.52	7.84	+ 2 + 9	17.59	16.36	−10 + 2	20.88	26.86	− 4 −11
6	1.88	3.12	+ 7 + 5	10.79	8.07	− 2 + 9	17.76	16.68	−11 − 2	20.91	27.21	+ 1 −11
7	2.19	3.22	+ 4 + 8	11.06	8.30	− 6 + 8	17.93	17.00	−10 − 7	20.93	27.55	+ 5 − 9
8	2.50	3.33	0 + 9	11.33	8.53	− 9 + 5	18.10	17.32	− 6 −10	20.95	27.90	+ 9 − 4
9	2.82	3.44	− 4 + 9	11.59	8.77	−11 0	18.26	17.65	− 2 −12	20.96	28.24	+ 9 + 2
10	3.13	3.56	− 8 + 7	11.85	9.01	−11 − 4	18.41	17.97	+ 3 −11	20.97	28.58	+ 8 + 7
11	3.44	3.68	−11 + 3	12.11	9.25	− 9 − 8	18.56	18.30	+ 7 − 7	20.98	28.93	+ 5 +10
12	3.75	3.80	−12 − 2	12.37	9.50	− 5 −11	18.71	18.63	+ 9 − 2	20.98	29.27	0 +12
13	4.06	3.93	−11 − 6	12.62	9.75	0 −12	18.86	18.96	+ 8 + 3	20.97	29.61	− 4 +10
14	4.37	4.06	− 8 −10	12.87	10.00	+ 4 −10	19.00	19.29	+ 6 + 8	20.96	29.95	− 7 + 6
15	4.68	4.20	− 4 −12	13.12	10.26	+ 7 − 5	19.13	19.63	+ 2 +11	20.94	30.28	− 8 + 2
16	4.98	4.34	+ 1 −11	13.37	10.52	+ 8 0	19.26	19.97	− 2 +11	20.92	30.62	− 7 − 3
17	5.29	4.49	+ 5 − 8	13.61	10.79	+ 8 + 5	19.38	20.31	− 6 + 9	20.90	30.95	− 4 − 7
18	5.60	4.64	+ 8 − 4	13.85	11.06	+ 5 + 9	19.50	20.65	− 8 + 5	20.87	31.28	0 − 9
19	5.90	4.79	+ 8 + 2	14.09	11.33	0 +11	19.61	20.99	− 8 0	20.83	31.61	+ 4 − 9
20	6.20	4.95	+ 7 + 7	14.32	11.60	− 4 +10	19.72	21.33	− 6 − 5	20.79	31.94	+ 7 − 7
21	6.50	5.12	+ 3 +10	14.55	11.88	− 7 + 7	19.83	21.67	− 3 − 8	20.74	32.27	+ 9 − 4
22	6.80	5.29	− 1 +11	14.78	12.16	− 8 + 3	19.93	22.01	+ 1 − 9	20.69	32.59	+10 0
23	7.10	5.46	− 5 + 9	15.00	12.44	− 7 − 2	20.03	22.36	+ 5 − 9	20.63	32.91	+ 9 + 4
24	7.40	5.63	− 7 + 6	15.22	12.73	− 4 − 6	20.13	22.71	+ 8 − 6	20.57	33.23	+ 6 + 7
25	7.69	5.81	− 7 + 1	15.44	13.02	− 1 − 8	{20.22 20.31	23.05 23.40	+10 − 3 +10 + 1}	20.50	33.55	+ 2 + 9
26	7.98	6.00	− 6 − 3	15.65	13.31	+ 3 − 9	20.39	23.75	+ 8 + 5	20.43	33.86	− 2 + 9
27	8.27	6.19	− 3 − 7	15.86	13.60	+ 7 − 8	20.46	24.09	+ 5 + 8	20.36	34.17	− 6 + 8
28	8.56	6.38	+ 1 − 9	16.07	13.89	+ 9 − 5	20.53	24.44	+ 1 + 9	20.28	34.48	− 9 + 5
29	8.85	6.58	+ 5 − 9	16.27	14.19	+10 − 1	20.60	24.79	− 3 + 9	20.19	34.79	−11 + 1
30	9.14	6.78	+ 8 − 7	16.47	14.49	+ 9 + 3	20.66	25.13	− 7 + 7	20.10	35.09	−11 − 3
31	9.42	6.98	+10 − 3	16.66	14.80	+ 7 + 6	20.71	25.48	−10 + 4	20.00	35.39	− 9 − 8
32				16.85	15.11	+ 4 + 9				19.89	35.70	− 6 −11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 22′ 0″	12.379	+12.339	+85° 22′ 10″	12.387	+12.346	+85° 22′ 30″	12.402	+12.361
10	12.387	+12.346	20	12.394	+12.354	40	12.409	+12.369

$\alpha_{1930.0} = 4^h\ 13^m\ 53^s.17$ $\delta_{1930.0} = +85°\ 22'\ 8''.50$

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^{m}.26$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$7^{h}\,8^{m}$	+87° 9′	in 0.01ˢ 0.01″	$7^{h}\,8^{m}$	+87° 9′	in 0.01ˢ 0.01″	$7^{h}\,8^{m}$	+87° 10′	in 0.01ˢ 0.01″	$7^{h}\,8^{m}$	+87° 10′	in 0.01ˢ 0.01″
1	45.22	45.44	+ 4 − 9	46.00	55.66	+ 7 + 8	39.71	2.97	+ 4 + 10	28.05	6.62	− 16 + 5
2	45.38	45.75	+ 8 − 7	45.88	55.96	+ 1 + 10	39.39	3.17	− 2 + 11	27.65	6.64	− 18 0
3	45.53	46.07	+ 10 − 3	45.75	56.26	− 6 + 11	39.06	3.36	− 9 + 11	27.24	6.66	− 16 − 5
4	45.68	46.39	+ 11 + 1	45.61	56.56	− 12 + 10	38.73	3.55	− 14 + 8	26.83	6.67	− 11 − 9
5	45.82	46.70	+ 8 + 6	45.47	56.86	− 17 + 6	38.39	3.74	− 18 + 3	26.43	6.67	− 4 − 11
6	45.95	47.02	+ 4 + 9	45.32	57.16	− 19 + 2	38.05	3.92	− 18 − 2	26.02	6.67	+ 4 − 10
7	46.07	47.34	− 2 + 11	45.16	57.45	− 18 − 4	37.71	4.09	− 15 − 6	25.61	6.66	+ 11 − 7
8	{46.18 / 46.28	47.66 / 47.98	− 8 + 11 / − 14 + 9	44.98	57.74	− 13 − 8	37.36	4.26	− 9 − 10	25.21	6.65	+ 15 − 2
9	46.37	48.30	− 18 + 5	44.80	58.02	− 6 − 10	37.01	4.43	− 1 − 11	24.80	6.63	+ 15 + 3
10	46.45	48.63	− 19 − 1	44.61	58.30	+ 3 − 10	36.65	4.59	+ 6 − 9	24.40	6.61	+ 12 + 8
11	46.52	48.96	− 16 − 6	44.42	58.58	+ 10 − 8	36.29	4.74	+ 12 − 5	24.00	6.58	+ 6 + 10
12	46.58	49.28	− 9 − 9	44.22	58.86	+ 15 − 3	35.92	4.89	+ 15 0	23.60	6.54	0 + 10
13	46.64	49.61	− 1 − 11	44.01	59.13	+ 16 + 2	35.55	5.03	+ 14 + 5	23.20	6.50	− 5 + 8
14	46.69	49.93	+ 7 − 10	43.79	59.40	+ 14 + 6	35.18	5.17	+ 10 + 8	22.80	6.45	− 9 + 4
15	46.73	50.25	+ 13 − 6	43.56	59.67	+ 9 + 9	34.80	5.30	+ 5 + 10	22.41	6.40	− 10 − 1
16	46.76	50.58	+ 17 − 1	43.33	59.93	+ 3 + 10	34.42	5.42	− 1 + 9	22.01	6.34	− 9 − 5
17	46.78	50.90	+ 17 + 4	43.09	60.19	− 2 + 8	34.04	5.54	− 6 + 6	21.62	6.27	− 6 − 8
18	46.79	51.22	+ 13 + 8	42.84	60.45	− 7 + 4	33.65	5.65	− 9 + 2	21.23	6.20	− 1 − 10
19	46.79	51.55	+ 7 + 9	42.59	60.70	− 9 0	33.26	5.76	− 9 − 2	20.84	6.12	+ 4 − 10
20	46.78	51.87	+ 1 + 9	42.33	60.95	− 9 − 4	32.87	5.86	− 8 − 6	20.46	6.04	+ 8 − 8
21	46.76	52.19	− 4 + 7	42.06	61.19	− 6 − 8	32.48	5.96	− 4 − 9	20.08	5.95	+ 11 − 5
22	46.73	52.51	− 8 + 3	41.79	61.43	− 2 − 10	32.09	6.05	+ 1 − 10	19.70	5.85	+ 12 − 1
23	46.70	52.83	− 9 − 1	41.51	61.66	+ 2 − 10	31.69	6.13	+ 5 − 10	19.33	5.75	+ 11 + 3
24	46.66	53.15	− 8 − 5	41.22	61.89	+ 7 − 9	31.29	6.21	+ 9 − 7	18.96	5.65	+ 8 + 7
25	46.61	53.47	− 5 − 9	40.93	62.11	+ 11 − 6	30.89	6.28	+ 12 − 4	18.59	5.54	+ 3 + 10
26	46.55	53.79	− 1 − 10	40.63	62.33	+ 12 − 2	30.48	6.35	+ 12 0	18.22	5.42	− 3 + 11
27	46.48	54.10	+ 4 − 10	40.33	62.55	+ 12 + 2	30.08	6.41	+ 10 + 5	17.86	5.30	− 9 + 10
28	46.40	54.41	+ 8 − 8	40.02	62.76	+ 9 + 6	29.68	6.46	+ 7 + 8	17.50	5.18	− 14 + 7
29	46.32	54.73	+ 11 − 5	39.71	62.97	+ 4 + 10	29.27	6.51	+ 1 + 11	17.15	5.05	− 17 + 2
30	46.22	55.04	+ 11 − 1				28.87	6.55	− 6 + 11	16.80	4.91	− 16 − 3
31	46.11	55.35	+ 10 + 4				28.46	6.59	− 12 + 9	16.46	4.77	− 12 − 7
32	46.00	55.66	+ 7 + 8				28.05	6.62	− 16 + 5			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9′ 40″	20.191	+20.166	+87° 9′ 50″	20.210	+20.186	+87° 10′ 0″	20.230	+20.206
50	20.210	+20 186	60	20.230	+20.206	10	20 250	+20.225

$\alpha_{1930.0} = 7^{h}\ 8^{m}\ 21^{s}.21$ $\delta_{1930.0} = +87°\ 9'\ 40''.84$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m.26$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$7^h\ 8^m$	$+87°\ 9'$	in $0.^s01 \mid 0.''01$	$7^h\ 8^m$	$+87°\ 9'$	in $0.^s01 \mid 0.''01$	$7^h\ 8^m$	$+87°\ 9'$	in $0.^s01 \mid 0.''01$	$7^h\ 8^m$	$+87°\ 9'$	in $0.^s01 \mid 0.''01$
1	$16.^s46$	$64.''77$	−12 − 7	$8.^s38$	$58.''14$	+13 − 6	$6.^s77$	$49.''18$	+14 + 6	$12.^s03$	$39.''63$	− 6 + 6
2	16.12	64.62	− 6 −10	8.22	57.87	+16 − 1	6.83	48.87	+ 9 + 9	12.31	39.34	− 9 + 2
3	15.79	64.47	+ 2 −11	8.07	57.60	+16 + 4	6.90	48.55	+ 3 +10	12.59	39.05	− 9 − 3
4	15.46	64.31	+ 9 − 8	7.93	57.32	+12 + 8	6.98	48.23	− 3 + 8	12.88	38.77	− 7 − 7
5	15.13	64.15	+14 − 4	7.79	57.04	+ 6 +10	7.06	47.92	− 8 + 5	13.18	38.49	− 3 −10
6	14.81	63.98	+16 + 1	7.66	56.76	− 1 +10	7.15	47.60	−10 0	13.48	38.20	+ 2 −11
7	14.49	63.81	+14 + 6	7.53	56.48	− 6 + 7	7.25	47.28	− 9 − 4	13.79	37.92	+ 7 −10
8	14.17	63.63	+ 9 + 9	7.41	56.19	−10 + 3	7.36	46.97	− 6 − 8	14.10	37.65	+11 − 7
9	13.86	63.45	+ 3 +10	7.30	55.90	−11 − 2	*)7.47	46.65	− 2 −10	14.42	37.38	+13 − 3
10	13.55	63.26	− 3 + 9	7.20	55.61	− 9 − 6	7.59	46.34	+ 3 −10	14.74	37.11	+13 + 1
11	13.25	63.07	− 8 + 6	7.10	55.32	− 5 − 9	7.72	46.02	+ 8 − 8	15.07	36.84	+10 + 5
12	12.96	62.87	−11 + 1	7.01	55.03	0 −10	7.85	45.71	+11 − 5	15.41	36.57	+ 6 + 9
13	12.67	62.67	−10 − 3	6.93	54.73	+ 4 −10	7.99	45.39	+12 − 2	15.76	36.31	0 +11
14	12.39	62.47	− 8 − 7	6.86	54.43	+ 9 − 7	8.14	45.08	+11 + 3	16.11	36.05	− 7 +11
15	12.12	62.26	− 3 −10	6.80	54.13	+11 − 4	8.30	44.77	+ 8 + 7	16.46	35.79	−13 + 9
16	11.85	62.05	+ 2 −10	6.74	53.83	+12 0	8.46	44.46	+ 3 +10	16.82	35.54	−18 + 5
17	11.59	61.83	+ 6 − 9	6.69	53.53	+10 + 4	8.63	44.14	− 3 +12	17.19	35.29	−19 0
18	11.33	61.61	+10 − 6	6.65	53.23	+ 6 + 8	8.81	43.83	−10 +11	17.56	35.04	−18 − 4
19	11.08	61.38	+12 − 3	6.61	52.92	+ 1 +10	9.00	43.52	−15 + 8	17.94	34.80	−13 − 8
20	10.83	61.15	+12 + 2	6.58	52.61	− 6 +11	9.19	43.21	−19 + 4	18.32	34.56	− 5 −10
21	10.59	60.92	+ 9 + 6	6.56	52.31	−12 +10	9.39	42.91	−19 − 1	18.70	34.32	+ 3 −10
22	10.36	60.68	+ 5 + 9	6.55	52.00	−16 + 6	9.60	42.60	−16 − 6	19.09	34.08	+10 − 7
23	10.13	60.44	− 1 +11	6.55	51.69	−18 + 1	9.81	42.30	− 9 −10	19.49	33.84	+14 − 2
24	9.91	60.20	− 8 +11	6.55	51.38	−17 − 4	10.03	42.00	− 1 −11	19.89	33.61	+15 + 3
25	9.69	59.95	−13 + 8	6.56	51.07	−12 − 8	10.26	41.69	+ 7 − 9	20.30	33.38	+12 + 7
26	9.48	59.70	−17 + 4	6.58	50.75	− 5 −10	10.49	41.39	+13 − 5	20.71	33.15	+ 7 +10
27	9.28	59.45	−18 − 1	6.60	50.44	+ 3 −10	10.73	41.09	+16 0	21.13	32.93	+ 1 +10
28	9.09	59.19	−15 − 6	6.63	50.13	+11 − 8	10.98	40.79	+15 + 5	21.55	32.71	− 4 + 8
29	8.90	58.93	− 9 − 9	6.67	49.81	+15 − 3	11.23	40.50	+11 + 8	21.97	32.49	− 8 + 4
30	8.72	58.67	− 1 −11	6.72	49.50	+17 + 2	11.49	40.20	+ 6 +10	22.40	32.28	−10 − 1
31	8.55	58.41	+ 7 −10	6.77	49.18	+14 + 6	11.76	39.91	− 1 + 9	22.83	32.07	− 8 − 6
32	8.38	58.14	+13 − 6				12.03	39.63	− 6 + 6	23.27	31.87	− 4 − 9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9′ 30″	20.171	+20.146	+87° 9′ 50″	20.210	+20.186	+87° 10′ 0″	20.230	+20.206
40	20.191	+20.166	60	20.230	+20.206	10	20.250	+20.225

$\alpha_{1930.0} = 7^h\ 8^m\ 21^s.21 \qquad \delta_{1930.0} = +87°\ 9'\ 40''.84$

*) Tag der doppelten unteren Kulmination: Juli 9

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^{m}.26$

Tag	September AR.	Dekl.	☾ Glieder		Oktober AR.	Dekl.	☾ Glieder		November AR.	Dekl.	☾ Glieder		Dezember AR.	Dekl.	☾ Glieder	
	$7^h\ 8^m$	$+87°\ 9'$	in $0.^s01$	in $0.''01$	$7^h\ 8^m$	$+87°\ 9'$	in $0.^s01$	in $0.''01$	$7^h\ 8^m$	$+87°\ 9'$	in $0.^s01$	in $0.''01$	$7^h\ 9^m$	$+87°\ 9'$	in $0.^s01$	in $0.''01$
1	23.27	31.87	−4	−9	37.96	27.59	+9	−9	54.36	27.47	+12	+4	8.35	31.85	−2	+11
2	23.71	31.67	+1	−11	38.49	27.51	+12	−6	54.88	27.55	+7	+8	8.75	32.07	−9	+10
3	24.16	31.47	+6	−10	39.01	27.44	+14	−2	55.39	27.63	+2	+10	9.14	32.29	−14	+7
4	24.61	31.28	+10	−8	39.54	27.37	+13	+2	55.90	27.71	−4	+11	9.52	32.52	−17	+3
5	25.07	31.09	+13	−5	40.07	27.31	+10	+6	56.41	27.80	−11	+9	9.90	32.75	−17	−2
6	25.53	30.90	+13	−1	40.60	27.25	+5	+9	56.92	27.90	−15	+6	10.27	32.98	−14	−7
7	25.99	30.72	+12	+4	41.13	27.20	−1	+11	57.42	28.00	−17	+1	10.63	33.22	−8	−10
8	26.45	30.54	+8	+7	41.66	27.15	−7	+10	57.92	28.11	−16	−4	10.99	33.46	−1	−11
9	26.92	30.36	+3	+10	42.19	27.11	−13	+8	58.42	28.22	−12	−8	11.34	33.70	+7	−9
10	27.39	30.19	−3	+11	42.73	27.07	−17	+4	58.91	28.33	−5	−10	11.68	33.95	+13	−5
11	27.87	30.03	−10	+10	43.26	27.04	−18	−1	59.40	28.45	+2	−10	12.02	34.20	+15	0
12	28.35	29.87	−15	+7	43.79	27.01	−16	−6	59.89	28.58	+9	−7	12.35	34.46	+14	+5
13	28.83	29.71	−18	+2	44.32	26.98	−10	−9	60.37	28.71	+14	−3	12.68	34.72	+10	+9
14	29.31	29.55	−18	−3	44.86	26.96	−3	−10	60.85	28.84	+15	+2	13.00	34.98	+4	+10
15	29.80	29.40	−15	−7	45.39	26.95	+4	−9	61.33	28.98	+12	+7	13.31	35.24	−3	+10
16	30.29	29.26	−8	−10	45.93	26.94	+10	−6	61.80	29.13	+7	+10	13.61	35.51	−8	+7
17	30.79	29.12	−1	−10	46.46	26.94	+13	−1	62.27	29.28	+1	+11	13.90	35.78	−11	+2
18	31.29	28.98	+6	−8	46.99	26.94	+13	+4	62.73	29.44	−6	+9	14.19	36.06	−11	−3
19	31.79	28.85	+12	−4	47.53	26.95	+10	+9	63.19	29.60	−10	+5	14.47	36.34	−8	−7
20	32.29	28.72	+14	+1	48.06	26.96	+4	+11	63.65	29.76	−11	0	14.74	36.62	−3	−10
21	32.80	28.59	+13	+6	48.59	26.97	−2	+10	64.10	29.93	−10	−5	15.00	36.90	+3	−11
22	33.31	28.47	+8	+9	49.12	26.99	−7	+7	64.55	30.10	−6	−9	15.26	37.19	+8	−10
23	33.82	28.35	+3	+11	49.65	27.02	−10	+3	64.99	30.28	−1	−11	15.51	37.48	+12	−7
24	34.33	28.24	−3	+9	50.18	27.05	−11	−2	65.43	30.46	+5	−11	15.75	37.77	+13	−3
25	34.84	28.13	−8	+6	50.71	27.08	−8	−6	65.86	30.65	+10	−9	15.98	38.06	+13	+2
26	35.35	28.03	−10	+1	51.23	27.12	−3	−10	66.29	30.84	+13	−5	16.21	38.36	+10	+6
27	35.87	27.93	−9	−4	51.76	27.17	+2	−11	66.71	31.03	+14	−1	16.42	38.66	+6	+9
28	36.39	27.84	−6	−8	52.29	27.22	+7	−10	67.13	31.23	+12	+3	16.63	38.96	0	+11
29	36.91	27.75	−1	−10	52.81	27.28	+11	−8	67.54	31.43	+9	+7	16.83	39.26	−7	+11
30	37.44	27.67	+4	−11	53.33	27.34	+13	−4	67.95	31.64	+4	+10	17.02	39.57	−13	+8
31	37.96	27.59	+9	−9	53.85	27.40	+14	0	68.35	31.85	−2	+11	17.20	39.88	−17	+5
32					54.36	27.47	+12	+4					17.38	40.19	−18	0

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9′ 20″	20.151	+20.126	+87° 9′ 30″	20.171	+20.146	+87° 9′ 40″	20.191	+20.166
30	20.171	+20.146	40	20.191	+20.166	50	20.210	+20.186

$\alpha_{1930.0} = 7^h\ 8^m\ 21^s.21$ $\delta_{1930.0} = +87°\ 9'\ 40''.84$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$9^h 27^m$	$+81° 38'$	in 0.01^s $0.01''$	$9^h 27^m$	$+81° 38'$	in 0.01^s $0.01''$	$9^h 27^m$	$+81° 38'$	in 0.01^s $0.01''$	$9^h 27^m$	$+81° 38'$	in 0.01^s $0.01''$
1	$22^s.74$	$10''.50$	0 − 9	$25^s.86$	$17''.93$	+4 0	$26^s.25$	$26''.65$	+4 + 6	$24^s.09$	$34''.52$	−5 +10
2	22.88	10.68	+1 − 8	25.91	18.22	+4 + 4	26.22	26.95	+2 +10	23.98	34.72	−6 + 6
3	23.02	10.86	+3 − 6	25.96	18.51	+3 + 8	26.19	27.24	−1 +12	23.88	34.91	−6 + 2
4	23.15	11.05	+4 − 3	26.01	18.81	+1 +11	26.16	27.53	−3 +12	23.77	35.09	−6 − 3
5	23.28	11.24	+4 + 2	26.06	19.10	−2 +12	26.12	27.82	−6 + 9	23.66	35.27	−3 − 7
6	23.41	11.44	+3 + 6	26.10	19.40	−5 +11	26.08	28.10	−7 + 5	23.56	35.45	0 − 9
7	23.54	11.64	+2 +10	26.14	19.69	−6 + 8	26.03	28.39	−6 0	23.45	35.62	+2 − 9
8	23.67	11.85	0 +12	26.18	19.99	−7 + 3	25.98	28.67	−5 − 5	23.34	35.78	+5 − 7
9	23.79	12.06	−3 +12	26.22	20.29	−6 − 2	25.93	28.95	−2 − 8	23.23	35.94	+6 − 3
10	23.91	12.27	−5 +10	26.25	20.59	−4 − 6	25.87	29.23	+1 −10	23.11	36.10	+6 + 2
11	24.02	12.49	−7 + 6	26.28	20.89	−1 − 9	25.81	29.51	+3 − 9	22.99	36.25	+4 + 6
12	24.13	12.71	−7 + 1	{26.30 {26.32	21.20 21.50	+2 −10} +5 − 8}	25.75	29.79	+5 − 5	22.88	36.39	+2 + 8
13	24.24	12.94	−5 − 4	26.34	21.80	+6 − 4	25.69	30.06	+6 − 1	22.76	36.53	0 + 8
14	24.35	13.17	−3 − 8	26.36	22.11	+6 0	25.63	30.33	+5 + 3	22.64	36.66	−2 + 6
15	24.46	13.41	0 −10	26.37	22.41	+5 + 4	25.56	30.59	+4 + 6	22.52	36.79	−4 + 3
16	24.57	13.65	+3 −10	26.38	22.71	+3 + 7	25.49	30.85	+1 + 8	22.40	36.92	−4 − 1
17	24.67	13.89	+6 − 7	26.39	23.02	+1 + 7	25.42	31.11	−1 + 7	22.27	37.04	−4 − 5
18	24.77	14.14	+7 − 3	26.40	23.32	−2 + 6	25.35	31.36	−3 + 5	22.15	37.15	−3 − 8
19	24.87	14.39	+6 + 1	26.40	23.63	−3 + 3	25.27	31.61	−4 + 1	22.03	37.26	−1 −10
20	24.96	14.64	+5 + 5	26.40	23.94	−4 0	25.19	31.86	−4 − 3	21.90	37.36	+1 −10
21	25.05	14.90	+2 + 7	26.39	24.24	−4 − 4	25.11	32.10	−3 − 6	21.77	37.46	+3 − 8
22	25.14	15.16	0 + 7	26.38	24.55	−3 − 7	25.03	32.34	−2 − 9	21.65	37.55	+4 − 5
23	25.22	15.42	−2 + 5	26.37	24.85	−1 − 9	24.94	32.58	0 −10	21.52	37.64	+5 − 1
24	25.30	15.69	−4 + 2	26.36	25.15	0 −10	24.85	32.81	+2 − 9	21.40	37.72	+4 + 3
25	25.38	15.96	−4 − 1	26.34	25.46	+2 − 8	24.76	33.04	+3 − 7	21.27	37.79	+3 + 7
26	25.46	16.23	−4 − 5	26.32	25.76	+4 − 6	24.67	33.26	+4 − 4	21.14	37.86	+1 +10
27	25.53	16.51	−2 − 8	26.30	26.06	+5 − 2	24.58	33.48	+5 0	21.01	37.92	−1 +12
28	25.60	16.79	−1 − 9	26.28	26.36	+5 + 2	24.49	33.70	+4 + 4	20.89	37.98	−4 +11
29	25.67	17.07	+1 − 9	26.25	26.65	+4 + 6	24.39	33.91	+3 + 8	20.76	38.03	−6 + 8
30	25.74	17.35	+3 − 8				24.29	34.12	0 +11	20.63	38.07	−6 + 3
31	25.80	17.64	+4 − 4				24.19	34.32	−2 +12	20.50	38.11	−6 − 2
32	25.86	17.93	+4 0				24.09	34.52	−5 +10			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 38′ 10″	6.875	+6.802	+81° 38′ 20″	6.877	+6.804	+81° 38′ 30″	6.879	+6.806
20	6.877	+6.804	30	6.879	+6.806	40	6.882	+6.809

$\alpha_{1930.0} = 9^h\ 27^m\ 15^s.26 \qquad \delta_{1930.0} = +81°\ 38'\ 17''.12$

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder
	$9^h 27^m$	$+81° 38'$	in $0.^s01$ $0.''01$	$9^h 27^m$	$+81° 38'$	in $0.^s01$ $0.''01$
1	20.50	38.11	−6 −2	16.69	36.56	+3 −10
2	20.37	38.14	−4 −6	16.58	36.43	+6 −7
3	20.24	38.17	−1 −9	16.47	36.29	+6 −2
4	20.11	38.19	+1 −10	16.37	36.14	+6 +2
5	19.98	38.21	+4 −8	16.26	35.99	+4 +6
6	19.85	38.22	+6 −5	16.16	35.83	+2 +8
7	19.72	38.23	+6 0	16.05	35.67	−1 +8
8	19.60	38.23	+5 +4	15.95	35.50	−3 +6
9	19.47	38.22	+3 +7	15.85	35.33	−4 +2
10	19.34	38.21	+1 +9	15.75	35.15	−4 −2
11	19.21	38.19	−2 +7	15.65	34.97	−4 −6
12	19.09	38.17	−4 +5	15.56	34.79	−2 −8
13	18.96	38.14	−4 +1	15.46	34.60	0 −10
14	18.83	38.11	−4 −3	15.37	34.40	+1 −9
15	18.71	38.07	−3 −7	15.28	34.20	+3 −7
16	18.58	38.03	−2 −9	15.19	34.00	+4 −4
17	18.45	37.98	0 −10	15.11	33.80	+5 0
18	18.33	37.92	+2 −9	15.02	33.59	+4 +4
19	18.20	37.86	+4 −6	14.94	33.37	+3 +8
20	18.08	37.79	+5 −3	14.86	33.15	0 +11
21	17.96	37.72	+5 +1	14.78	32.92	−2 +12
22	17.84	37.64	+4 +6	14.70	32.69	−5 +11
23	17.72	37.55	+2 +9	14.63	32.46	−6 +8
24	17.60	37.46	0 +12	14.55	32.22	−7 +3
25	17.48	37.37	−3 +12	14.48	31.98	−6 −2
26	17.36	37.27	−5 +10	14.41	31.74	−4 −7
27	17.25	37.16	−6 +5	14.34	31.49	−1 −10
28	17.14	37.05	−6 0	14.27	31.24	+2 −10
29	17.02	36.94	−5 −5	14.21	30.99	+5 −8
30	16.91	36.82	−3 −9	14.15	30.73	+6 −5
31	16.80	36.69	0 −10	14.09	30.47	+6 0
32	16.69	36.56	+3 −10			

Tag	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$9^h 27^m$	$+81° 38'$	in $0.^s01$ $0.''01$	$9^h 27^m$	$+81° 38'$	in $0.^s01$ $0.''01$
1	14.09	30.47	+6 0	13.25	21.01	−1 +7
2	14.03	30.21	+5 +4	13.26	20.67	−3 +4
3	13.97	29.94	+3 +7	13.27	20.33	−4 +1
4	13.92	29.67	0 +8	13.28	20.00	−4 −3
5	13.86	29.39	−2 +6	13.30	19.66	−3 −7
6	13.81	29.11	−4 +3	13.31	19.32	−1 −9
7	13.76	28.83	−4 0	13.33	18.98	0 −10
8	13.71	28.55	−4 −4	13.35	18.63	+2 −10
9	13.67	28.26	−3 −8	13.37	18.29	+4 −7
10	13.63	27.97	−1 −10	13.40	17.94	+5 −4
11	13.59	27.68	+1 −10	13.43	17.60	+5 +1
12	13.55	27.38	+3 −8	13.46	17.25	+4 +5
13	13.52	27.08	+4 −6	13.50	16.91	+2 +9
14	13.49	26.78	+4 −2	*) 13.53	16.56	0 +12
15	13.46	26.48	+4 +3	13.57	16.22	−3 +12
16	13.43	26.18	+3 +7	13.61	15.87	−5 +11
17	13.40	25.87	+1 +10	13.65	15.53	−7 +7
18	13.37	25.56	−1 +12	13.69	15.18	−7 +2
19	13.35	25.24	−4 +12	13.74	14.84	−6 −2
20	13.33	24.93	−6 +10	13.79	14.49	−4 −7
21	13.31	24.61	−7 +5	13.84	14.15	−1 −9
22	13.30	24.29	−7 0	13.89	13.80	+2 −9
23	13.28	23.97	−5 −5	13.95	13.45	+5 −7
24	13.27	23.65	−3 −8	14.00	13.11	+6 −3
25	13.26	23.32	0 −10	14.06	12.76	+6 +2
26	13.25	23.00	+3 −9	14.12	12.41	+5 +5
27	13.25	22.67	+6 −6	14.18	12.07	+2 +8
28	13.24	22.34	+6 −2	14.25	11.72	0 +8
29	13.24	22.01	+6 +3	14.32	11.38	−2 +6
30	13.24	21.68	+4 +6	14.39	11.03	−4 +2
31	13.25	21.34	+2 +8	14.46	10.69	−4 −2
32	13.25	21.01	−1 +7	14.53	10.35	−3 −6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 38′ 10″	6.875	+6.802	+81° 38′ 20″	6.877	+6.804	+81° 38′ 30″	6.879	+6.806
20	6.877	+6.804	30	6.879	+6.806	40	6.882	+6.809

$\alpha_{1930.0} = 9^h\ 27^m\ 15^s.26$ $\delta_{1930.0} = +81°\ 38'\ 17''.12$

*) Tag der doppelten unteren Kulmination: Aug. 14

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$9^h 27^m$	$+81° 38'$	in $0^s.01$ $0''.01$	$9^h 27^m$	$+81° 37'$	in $0^s.01$ $0''.01$	$9^h 27^m$	$+81° 37'$	in $0^s.01$ $0''.01$	$9^h 27^m$	$+81° 37'$	in $0^s.01$ $0''.01$
1	14.53	10.35	−3 −6	17.66	60.84	+1 −11	22.42	53.80	+5 −1	27.75	51.30	+1 +10
2	14.61	10.01	−2 −9	17.79	60.56	+3 −10	22.59	53.64	+4 +4	27.93	51.30	−1 +11
3	14.69	9.67	0 −11	17.93	60.28	+4 −7	22.77	53.48	+3 +8	28.10	51.31	−4 +11
4	14.77	9.33	+2 −10	18.06	60.01	+5 −3	22.94	53.33	+1 +10	28.28	51.32	−6 +9
5	14.85	8.99	+3 −8	18.20	59.74	+5 +1	23.11	53.19	−2 +11	28.45	51.34	−7 +5
6	14.93	8.66	+5 −5	18.34	59.47	+4 +5	23.29	53.05	−4 +10	28.63	51.37	−6 0
7	15.02	8.32	+5 −1	18.48	59.20	+2 +9	23.47	52.92	−6 +7	28.80	51.40	−5 −5
8	15.10	7.98	+4 +3	18.62	58.94	0 +11	23.64	52.79	−6 +3	28.98	51.44	−2 −8
9	15.19	7.65	+3 +7	18.77	58.68	−3 +11	23.82	52.66	−6 −2	29.15	51.48	+1 −10
10	15.28	7.32	+1 +10	18.92	58.43	−5 +9	24.00	52.54	−4 −6	29.32	51.53	+3 −9
11	15.37	6.99	−1 +12	19.06	58.18	−7 +6	24.18	52.43	−1 −9	29.49	51.58	+5 −6
12	15.47	6.66	−4 +11	19.21	57.93	−7 +1	24.35	52.32	+2 −9	29.66	51.64	+6 −1
13	15.57	6.33	−6 +9	19.36	57.68	−6 −3	24.53	52.22	+4 −7	29.83	51.71	+5 +4
14	15.67	6.01	−7 +4	19.51	57.44	−3 −7	24.71	52.12	+6 −3	30.00	51.78	+3 +7
15	15.77	5.69	−7 0	19.66	57.20	0 −9	24.89	52.03	+6 +1	30.16	51.86	+1 +9
16	15.88	5.37	−5 −5	19.81	56.97	+2 −8	25.07	51.94	+5 +6	30.33	51.94	−2 +8
17	15.99	5.05	−2 −8	19.97	56.74	+5 −5	25.25	51.86	+2 +9	30.49	52.03	−4 +5
18	16.10	4.73	+1 −9	20.13	56.51	+6 −1	25.43	51.78	0 +9	30.65	52.12	−5 +1
19	16.21	4.41	+3 −7	20.28	56.29	+5 +3	25.61	51.71	−3 +7	30.81	52.22	−4 −3
20	16.32	4.10	+5 −4	20.44	56.07	+4 +7	25.79	51.64	−4 +4	30.97	52.32	−3 −7
21	16.43	3.79	+6 0	20.60	55.86	+1 +9	25.97	51.58	−5 0	31.13	52.43	−1 −10
22	16.55	3.49	+5 +5	20.76	55.65	−1 +9	26.15	51.53	−4 −5	31.29	52.55	+1 −11
23	16.66	3.18	+3 +8	20.92	55.45	−3 +6	26.33	51.48	−3 −8	31.44	52.67	+3 −10
24	16.78	2.88	+1 +9	21.09	55.25	−4 +2	26.50	51.44	−1 −10	31.59	52.80	+4 −7
25	16.90	2.58	−2 +7	21.25	55.05	−4 −2	26.68	51.40	+1 −11	31.75	52.93	+5 −3
26	17.02	2.28	−3 +4	21.41	54.86	−3 −7	26.86	51.37	+3 −9	31.90	53.07	+5 +1
27	17.15	1.99	−4 0	21.58	54.67	−2 −10	27.04	51.34	+5 −6	32.05	53.21	+4 +5
28	17.27	1.70	−4 −4	21.75	54.49	0 −11	27.22	51.32	+5 −2	32.20	53.36	+2 +9
29	17.40	1.41	−3 −8	21.91	54.31	+2 −10	27.39	51.31	+5 +3	32.34	53.52	0 +11
30	17.53	1.12	−1 −10	22.08	54.13	+4 −8	27.57	51.30	+3 +7	32.48	53.68	−3 +12
31	17.66	0.84	+1 −11	22.25	53.96	+5 −5	27.75	51.30	+1 +10	32.62	53.84	−5 +10
32				22.42	53.80	+5 −1				32.76	54.01	−6 +7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 37′ 50″	6.870	+6.797	+81° 38′ 0″	6.873	+6.799	+81° 38′ 10″	6.875	+6.802
60	6.873	+6.799	10	6.875	+6.802	20	6.877	+6.804

$\alpha_{1930.0} = 9^h\ 27^m\ 15^s.26$ $\delta_{1930.0} = +81°\ 38'\ 17''.12$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^m.34$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$10^h 22^m$	$+82° 54'$	in 0.01^s $0.01''$	$10^h 22^m$	$+82° 54'$	in 0.01^s $0.01''$	$10^h 22^m$	$+82° 55'$	in 0.01^s $0.01''$	$10^h 22^m$	$+82° 55'$	in 0.01^s $0.01''$
1	50.18	47.41	−2 −8	54.76	53.28	+5 −2	56.35	1.73	+5 +4	54.88	10.63	−4 +11
2	50.36	47.52	0 −8	54.86	53.54	+5 +2	56.35	2.04	+3 +8	54.79	10.87	−6 +8
3	50.54	47.63	+3 −7	54.96	53.80	+4 +6	56.35	2.34	+1 +11	54.69	11.11	−7 +4
4	50.72	47.75	+4 −4	55.06	54.07	+2 +10	56.35	2.65	−2 +12	54.59	11.35	−7 −1
5	50.89	47.88	+5 0	55.15	54.34	−1 +12	56.34	2.96	−5 +11	54.49	11.58	−5 −5
6	51.07	48.02	+5 +4	55.24	54.61	−4 +12	56.33	3.26	−7 +7	54.39	11.81	−2 −9
7	51.24	48.16	+3 +8	55.33	54.88	−6 +10	56.31	3.57	−7 +3	54.29	12.04	+1 −10
8	51.41	48.30	+1 +12	55.41	55.16	−7 +6	56.29	3.88	−6 −2	54.18	12.26	+4 −8
9	51.58	48.45	−2 +13	55.49	55.44	−7 +1	56.27	4.18	−4 −7	54.07	12.48	+6 −5
10	51.75	48.61	−5 +12	55.56	55.72	−5 −4	56.24	4.49	−1 −9	53.95	12.70	+7 0
11	51.91	48.77	−7 +8	55.63	56.00	−2 −8	56.21	4.79	+2 −9	53.84	12.91	+6 +4
12	52.07	48.94	−7 +4	55.70	56.29	+1 −10	56.18	5.09	+5 −7	53.72	13.12	+4 +7
13	52.23	49.11	−6 −2	55.77	56.59	+4 −9	56.15	5.39	+7 −4	53.60	13.32	+1 +8
14	52.39	49.29	−4 −7	55.83	56.88	+6 −6	56.11	5.69	+6 +1	53.48	13.52	−2 +7
15	52.55	49.47	−1 −10	55.89	57.17	+7 −2	56.07	5.98	+5 +4	53.35	13.71	−4 +5
16	52.70	49.66	+3 −10	55.95	57.47	+6 +2	56.02	6.27	+3 +6	53.23	13.90	−5 +1
17	52.85	49.85	+5 −9	56.00	57.77	+4 +5	55.97	6.56	0 +7	53.10	14.08	−5 −3
18	53.00	50.05	+7 −6	56.05	58.06	+2 +7	55.92	6.85	−3 +6	52.97	14.25	−4 −6
19	53.14	50.25	+7 −1	56.09	58.36	−1 +6	55.86	7.14	−4 +3	52.84	14.42	−2 −8
20	53.28	50.46	+6 +3	56.13	58.67	−3 +5	55.80	7.43	−5 −1	52.71	14.59	0 −9
21	53.42	50.67	+4 +5	56.17	58.97	−4 +2	55.74	7.71	−5 −4	52.58	14.75	+2 −9
22	53.55	50.89	+1 +7	56.20	59.28	−5 −2	55.68	7.99	−3 −7	52.44	14.91	+4 −7
23	53.68	51.11	−2 +6	56.23	59.58	−4 −6	55.61	8.27	−1 −9	52.30	15.06	+5 −3
24	53.81	51.34	−4 +3	56.26	59.89	−3 −8	55.54	8.54	+1 −9	52.17	15.20	+5 +1
25	53.94	51.57	−5 0	56.28	60.20	−1 −9	55.47	8.81	+3 −8	52.03	15.34	+4 +5
26	54.07	51.80	−5 −3	{56.30 {56.32	60.50 60.81	+2 −9} +4 −7}	55.39	9.08	+4 −5	51.89	15.48	+3 +9
27	54.19	52.04	−4 −6	56.33	61.12	+5 −4	55.31	9.35	+5 −2	51.75	15.61	0 +11
28	54.31	52.28	−2 −8	56.34	61.42	+5 0	55.23	9.61	+5 +3	51.61	15.73	−3 +12
29	54.43	52.52	0 −9	56.35	61.73	+5 +4	55.15	9.87	+4 +7	51.47	15.85	−5 +10
30	54.54	52.77	+2 −8				55.06	10.13	+2 +10	51.32	15.97	−7 +6
31	54.65	53.02	+4 −6				54.97	10.38	−1 +12	51.17	16.08	−7 +1
32	54.76	53.28	+5 −2				54.88	10.63	−4 +11			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 54′ 40″	8.103	+8.041	+82° 54′ 50″	8.106	+8.044	+82° 55′ 10″	8.113	+8.051
50	8.106	+8.044	60	8.109	+8.048	20	8.116	+8.054

$\alpha_{1930.0} = 10^h\ 22^m\ 42^s.37$ $\delta_{1930.0} = +82°\ 54'\ 58''.06$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nj) 30 Hev. Camelopardalis $5^{m}.34$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$10^{h}\,22^{m}$	$+82°\,55'$	in 0.01^{s}	$0.01''$	$10^{h}\,22^{m}$	$+82°\,55'$	in 0.01^{s}	$0.01''$	$10^{h}\,22^{m}$	$+82°\,55'$	in 0.01^{s}	$0.01''$	$10^{h}\,22^{m}$	$+82°\,54'$	in 0.01^{s}	$0.01''$
1	$51^{s}.17$	$16''.08$	−7	+1	46.50	16.63	+2	−10	42.59	12.16	+7	−3	40.28	63.48	0	+7
2	51.02	16.18	−5	−4	46.35	16.56	+5	−9	42.49	11.93	+6	+2	40.24	63.15	−3	+5
3	50.88	16.28	−3	−8	46.21	16.48	+7	−5	42.38	11.70	+4	+5	40.20	62.82	−4	+2
4	50.73	16.37	0	−10	46.06	16.39	+7	0	42.28	11.47	+2	+7	40.17	62.48	−5	−1
5	50.58	16.46	+3	−9	45.92	16.30	+5	+4	42.18	11.23	−1	+7	40.14	62.15	−4	−5
6	50.43	16.54	+6	−7	45.77	16.21	+3	+7	42.08	10.99	−4	+5	40.11	61.81	−3	−8
7	50.28	16.61	+7	−3	45.63	16.11	0	+8	41.99	10.75	−5	+1	40.09	61.47	−1	−10
8	50.13	16.68	+6	+2	45.49	16.01	−2	+6	41.89	10.50	−5	−3	40.07	61.13	+1	−10
9	49.98	16.74	+4	+6	45.35	15.90	−4	+4	41.80	10.25	−4	−6	40.05	60.78	+3	−8
10	49.83	16.80	+2	+8	45.21	15.78	−5	0	41.71	9.99	−2	−8	40.03	60.44	+5	−5
11	49.68	16.85	−1	+8	45.07	15.66	−5	−4	41.62	9.73	0	−9	40.01	60.09	+5	−1
12	49.53	16.90	−3	+6	44.93	15.53	−4	−7	41.54	9.47	+2	−9	40.00	59.74	+5	+3
13	49.37	16.94	−5	+2	44.80	15.40	−2	−9	41.45	9.20	+4	−7	39.99	59.39	+4	+7
14	49.22	16.98	−5	−1	44.67	15.26	0	−9	41.37	8.93	+5	−3	39.98	59.04	+1	+11
15	49.07	17.01	−4	−5	44.53	15.12	+2	−8	41.29	8.65	+5	+1	39.98	58.68	−1	+12
16	48.91	17.03	−3	−8	44.40	14.97	+4	−5	41.21	8.37	+4	+5	39.98	58.33	−4	+12
17	48.76	17.05	−1	−9	44.27	14.82	+5	−2	41.14	8.09	+3	+9	39.98	57.98	−7	+9
18	48.61	17.06	+1	−9	44.14	14.66	+5	+2	41.06	7.81	0	+12	39.98	57.62	−8	+5
19	48.46	17.07	+3	−7	44.01	14.50	+4	+7	40.99	7.52	−3	+13	39.98	57.26	−7	0
20	48.31	17.07	+5	−4	43.88	14.33	+2	+10	40.92	7.23	−5	+11	39.99	56.90	−5	−4
21	48.16	17.07	+5	0	43.75	14.16	−1	+12	40.85	6.93	−7	+8	40.00	56.54	−2	−8
22	48.00	17.06	+5	+4	43.63	13.98	−4	+12	40.79	6.63	−7	+3	40.01	56.18	+1	−9
23	47.85	17.04	+3	+8	43.51	13.80	−6	+10	40.73	6.33	−6	−2	40.03	55.82	+4	−8
24	47.70	17.02	+1	+11	43.39	13.61	−7	+5	40.67	6.02	−4	−7	40.04	55.46	+6	−5
25	47.55	16.99	−2	+12	43.27	13.42	−7	0	40.61	5.72	−1	−9	40.06	55.09	+7	−1
26	47.40	16.96	−4	+11	43.15	13.22	−5	−5	40.55	5.41	+3	−10	40.08	54.72	+6	+3
27	47.25	16.92	−6	+8	43.03	13.02	−2	−9	40.50	5.10	+6	−8	40.11	54.36	+4	+6
28	47.10	16.87	−7	+3	42.92	12.81	+1	−11	40.45	4.78	+7	−4	*)40.14	53.99	+1	+7
29	46.95	16.82	−6	−2	42.81	12.60	+4	−10	40.41	4.46	+7	0	40.17	53.62	−2	+6
30	46.80	16.76	−4	−7	42.70	12.38	+6	−7	40.36	4.14	+5	+4	40.20	53.26	−4	+3
31	46.65	16.70	−1	−10	42.59	12.16	+7	−3	40.32	3.81	+3	+7	40.24	52.89	−5	0
32	46.50	16.63	+2	−10					40.28	3.48	0	+7	40.28	52.52	−5	−4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 54′ 50″	8.106	+8.044	+82° 55′ 0″	8.109	+8.048	+82° 55′ 10″	8.113	+8.051
60	8.109	+8.048	10	8.113	+8.051	20	8.116	+8.054

$\alpha_{1930.0} = 10^{h}\,22^{m}\,42^{s}.37$ $\delta_{1930.0} = +82°\,54'\,58''.06$

*) Tag der doppelten unteren Kulmination: August 28

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^{m}.34$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$10^{h}\ 22^{m}$	+82° 54′	in 0.01ˢ 0.01″	$10^{h}\ 22^{m}$	+82° 54′	in 0.01ˢ 0.01″	$10^{h}\ 22^{m}$	+82° 54′	in 0.01ˢ 0.01″	$10^{h}\ 22^{m}$	+82° 54′	in 0.01ˢ 0.01″
1	40.28	52.52	−5 −4	42.58	41.74	0 −11	47.11	32.57	+6 −2	52.91	27.60	+3 +8
2	40.32	52.15	−4 −8	42.69	41.40	+2 −10	47.29	32.33	+5 +2	53.11	27.52	0 +11
3	40.36	51.79	−2 −10	42.81	41.06	+4 −8	47.47	32.10	+4 +6	53.31	27.45	−2 +12
4	40.40	51.42	+1 −10	42.93	40.73	+5 −5	47.64	31.87	+2 +9	53.52	27.38	−5 +10
5	40.45	51.05	+3 −9	43.05	40.40	+6 −1	47.82	31.65	−1 +11	53.72	27.32	−7 +7
6	40.50	50.68	+4 −7	43.17	40.07	+5 +3	48.01	31.43	−3 +11	53.93	27.26	−7 +2
7	40.56	50.31	+5 −3	43.30	39.74	+3 +7	48.19	31.21	−6 +9	54.13	27.21	−6 −3
8	40.61	49.94	+5 +1	43.43	39.41	+1 +10	48.38	31.00	−7 +5	54.34	27.17	−4 −7
9	40.67	49.58	+4 +5	43.56	39.09	−2 +12	48.57	30.80	−7 0	54.54	27.13	−1 −9
10	40.73	49.21	+3 +9	43.69	38.77	−4 +11	48.75	30.60	−5 −4	54.75	27.10	+3 −10
11	40.79	48.85	0 +11	43.83	38.46	−6 +8	48.94	30.40	−3 −8	54.95	27.07	+5 −7
12	40.86	48.48	−3 +12	43.97	38.15	−7 +4	49.13	30.21	+1 −9	55.15	27.05	+7 −3
13	40.93	48.12	−6 +10	44.11	37.84	−7 −1	49.32	30.03	+4 −8	55.35	27.04	+7 +1
14	41.00	47.75	−7 +7	44.25	37.53	−5 −5	49.51	29.85	+6 −5	55.56	27.03	+5 +5
15	41.07	47.39	−7 +2	44.39	37.22	−2 −8	49.70	29.67	+7 −1	55.76	27.03	+2 +8
16	41.15	47.02	−6 −3	44.53	36.92	+2 −9	49.90	29.50	+6 +3	55.96	27.03	−1 +8
17	41.23	46.66	−4 −7	44.68	36.62	+4 −7	50.09	29.33	+4 +7	56.16	27.04	−3 +6
18	41.31	46.30	0 −8	44.83	36.32	+6 −3	50.29	29.17	+1 +9	56.36	27.06	−5 +3
19	41.39	45.94	+3 −8	44.98	36.03	+6 +1	50.49	29.01	−2 +8	56.56	27.08	−5 −1
20	41.48	45.58	+5 −6	45.13	35.74	+5 +5	50.68	28.86	−4 +5	56.76	27.11	−5 −5
21	41.57	45.23	+7 −2	45.29	35.46	+3 +8	50.88	28.72	−5 +1	56.95	27.15	−3 −8
22	41.66	44.87	+6 +2	45.45	35.18	0 +8	51.08	28.58	−5 −3	57.15	27.19	−1 −10
23	41.75	44.52	+4 +6	45.61	34.90	−3 +7	51.28	28.45	−4 −7	57.34	27.24	+2 −10
24	41.84	44.16	+2 +8	45.77	34.62	−5 +3	51.48	28.32	−2 −9	57.54	27.29	+4 −8
25	41.94	43.81	−1 +7	45.93	34.35	−5 −1	51.68	28.20	0 −10	57.73	27.35	+5 −5
26	42.04	43.46	−3 +5	46.09	34.08	−5 −5	51.89	28.09	+3 −10	57.92	27.41	+6 −1
27	42.15	43.11	−5 +1	46.26	33.82	−3 −8	52.09	27.98	+4 −7	58.11	27.48	+5 +3
28	42.25	42.76	−5 −3	46.42	33.56	−1 −10	52.30	27.88	+5 −4	58.30	27.56	+4 +7
29	42.36	42.42	−4 −7	46.59	33.31	+1 −11	52.50	27.78	+6 0	58.49	27.65	+1 +10
30	42.47	42.08	−2 −9	46.77	33.06	+3 −9	52.70	27.69	+5 +5	58.67	27.74	−2 +12
31	42.58	41.74	0 −11	46.94	32.81	+5 −6	52.91	27.60	+3 +8	58.86	27.83	−4 +11
32				47.11	32.57	+6 −2				59.04	27.93	−6 +9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 54′ 20″	8.097	+8.035	+82° 54′ 30″	8.100	+8.038	+82° 54′ 50″	8.106	+8.044
30	8.100	+8.038	40	8.103	+8.041	60	8.109	+8.048

$\alpha_{1930.0} = 10^{h}\ 22^{m}\ 42^{s}.37$ $\delta_{1930.0} = +82°\ 54'\ 58''.06$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Ny) ε Ursae minoris 4ᵐ.40

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$16^h 52^m$	+82° 8′	in 0.01ˢ 0.01″	$16^h 53^m$	+82° 8′	in 0.01ˢ 0.01″	$16^h 53^m$	+82° 8′	in 0.01ˢ 0.01″	$16^h 53^m$	+82° 8′	in 0.01ˢ 0.01″
1	57.79	64.47	−3 +5	0.75	55.41	0 −8	4.95	51.56	0 −9	9.74	53.22	+4 −1
2	57.84	64.13	−3 +1	0.88	55.19	+1 −9	5.11	51.52	+2 −9	9.88	53.37	+4 +4
3	57.90	63.79	−2 −3	1.01	54.98	+3 −9	5.27	51.48	+3 −8	10.02	53.53	+2 +8
4	57.96	63.45	−1 −6	1.15	54.77	+4 −6	5.43	51.45	+4 −4	10.15	53.69	+1 +11
5	58.02	63.11	0 −9	1.29	54.57	+4 −2	5.60	51.43	+4 +1	10.28	53.86	−1 +11
6	58.09	62.78	+2 −9	1.43	54.38	+4 +3	5.76	51.41	+3 +6	10.41	54.03	−2 +9
7	58.16	62.45	+3 −8	1.57	54.19	+3 +7	5.92	51.40	+2 +9	10.54	54.21	−3 +5
8	58.23	62.12	+4 −5	1.71	54.00	+2 +11	6.08	51.39	0 +11	10.67	54.39	−3 0
9	58.31	61.79	+4 0	1.85	53.82	0 +11	6.24	51.39	−1 +11	10.80	54.58	−2 −6
10	58.39	61.46	+4 +5	2.00	53.65	−2 +10	6.40	51.40	−2 +8	10.92	54.77	−1 −10
11	58.47	61.14	+2 +9	2.14	53.48	−3 +6	6.56	51.42	−3 +3	11.04	54.97	0 −11
12	58.55	60.82	+1 +11	2.29	53.32	−3 +1	6.72	51.44	−3 −3	11.16	55.17	+1 −10
13	58.64	60.51	−1 +11	2.44	53.17	−3 −5	6.88	51.47	−2 −7	11.28	55.38	+2 −7
14	58.73	60.20	−3 +8	2.59	53.02	−2 −9	7.04	51.50	−1 −10	11.40	55.59	+3 −3
15	58.82	59.90	−3 +3	2.75	52.88	0 −11	7.20	51.54	+1 −11	11.51	55.81	+2 +2
16	58.92	59.60	−3 −2	2.90	52.75	+1 −11	7.36	51.59	+2 −9	11.62	56.03	+1 +6
17	59.01	59.30	−3 −7	3.05	52.62	+2 −8	7.51	51.65	+2 −6	11.73	56.26	0 +8
18	59.11	59.01	−1 −10	3.21	52.49	+2 −4	7.67	51.71	+2 −1	11.84	56.49	−1 +9
19	59.21	58.72	0 −11	3.36	52.37	+2 +1	7.82	51.78	+2 +4	11.95	56.72	−2 +8
20	59.32	58.44	+1 −10	3.52	52.26	+1 +5	7.98	51.85	+1 +7	12.06	56.96	−3 +6
21	59.43	58.16	+2 −7	3.68	52.16	0 +8	8.13	51.93	−1 +9	12.16	57.20	−3 +3
22	59.54	57.89	+2 −2	3.84	52.06	−1 +9	8.28	52.02	−2 +9	12.26	57.45	−3 −1
23	59.65	57.62	+2 +2	3.99	51.97	−2 +9	8.43	52.11	−3 +8	12.36	57.70	−2 −5
24	59.77	57.35	+1 +6	4.15	51.89	−3 +7	8.58	52.21	−3 +5	12.45	57.95	−1 −8
25	59.88	57.09	0 +9	4.31	51.81	−3 +4	8.73	52.32	−3 +1	12.54	58.21	+1 −9
26	60.00	56.84	−1 +9	4.47	51.74	−3 0	8.88	52.43	−3 −3	12.63	58.47	+2 −9
27	60.12	56.59	−2 +8	4.63	51.67	−2 −4	9.02	52.55	−2 −6	12.72	58.73	+3 −7
28	60.24	56.34	−3 +6	4.79	51.61	−1 −7	9.17	52.67	0 −9	12.81	59.00	+4 −3
29	60.36	56.10	−3 +2	4.95	51.56	0 −9	9.31	52.80	+1 −10	12.89	59.27	+4 +2
30	60.49	55.87	−2 −2				9.46	52.93	+3 −9	12.97	59.54	+3 +6
31	60.62	55.64	−1 −5				9.60	53.07	+4 −6	13.04	59.82	+1 +10
32	60.75	55.41	0 −8				9.74	53.22	+4 −1			

δ	sec δ	tg δ
+82° 8′ 50″	7.319	+7.250
60	7.322	+7.253

δ	sec δ	tg δ
+82° 9′ 0″	7.322	+7.253
10	7.324	+7.256

$\alpha_{1930.0} = 16^h\ 53^m\ 4^s.56$ $\delta_{1930.0} = +82°\ 9'\ 18''.79$

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^m.40$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$16^h 53^m$	$+82° 8'$	in $0^s.01$ $0''.01$	$16^h 53^m$	$+82° 9'$	in $0^s.01$ $0''.01$	$16^h 53^m$	$+82° 9'$	in $0^s.01$ $0''.01$	$16^h 53^m$	$+82° 9'$	in $0^s.01$ $0''.01$
1	$13^s.04$	$59''.82$	+1 +10	$14^s.09$	$9''.29$	−3 + 4	$12^s.51$	$18''.48$	0 −11	$8^s.68$	$24''.95$	+2 − 1
2	13.12	60.10	0 +11	14.08	9.60	−3 − 2	12.42	18.74	+1 −11	8.53	25.09	+2 + 4
3	13.19	60.38	−2 +10	14.07	9.92	−3 − 7	12.32	19.00	+2 − 8	8.38	25.23	0 + 7
4	13.26	60.66	−3 + 7	14.05	10.24	−1 −10	12.22	19.26	+2 − 4	8.23	25.36	−1 + 9
5	13.32	60.95	−3 + 2	{14.03 / 14.01	10.55 / 10.86	0 −11 / +2 −10}	12.12	19.51	+2 + 1	8.07	25.49	−2 + 9
6	13.38	61.24	−3 − 4	13.98	11.17	+2 − 6	12.02	19.76	+1 + 5	7.91	25.62	−3 + 7
7	13.44	61.53	−2 − 8	13.95	11.48	+3 − 2	11.92	20.00	0 + 8	7.76	25.74	−3 + 4
8	13.50	61.82	0 −11	13.92	11.79	+2 + 3	11.81	20.24	−1 + 9	7.60	25.86	−3 0
9	13.56	62.12	+1 −11	13.89	12.10	+1 + 7	11.70	20.48	−2 + 9	7.44	25.97	−2 − 3
10	13.61	62.42	+2 − 9	13.86	12.41	0 + 9	11.59	20.72	−3 + 6	7.28	26.08	−1 − 7
11	13.66	62.72	+3 − 5	13.82	12.72	−1 +10	11.48	20.95	−3 + 3	7.11	26.19	0 − 9
12	13.71	63.02	+2 0	13.78	13.03	−2 + 8	11.36	21.18	−3 − 1	6.95	26.29	+1 − 9
13	13.76	63.33	+2 + 5	13.73	13.33	−3 + 5	11.25	21.40	−2 − 5	6.78	26.38	+3 − 8
14	13.80	63.64	+1 + 8	13.68	13.63	−3 + 2	11.13	21.62	−1 − 8	6.62	26.47	+4 − 5
15	13.84	63.94	−1 + 9	13.63	13.93	−2 − 2	11.01	21.84	+1 − 9	6.45	26.55	+4 − 1
16	13.87	64.25	−2 + 9	13.58	14.23	−2 − 6	10.89	22.06	+2 − 9	6.28	26.63	+4 + 4
17	13.91	64.56	−3 + 7	13.53	14.53	0 − 8	10.77	22.27	+3 − 7	6.11	26.70	+3 + 8
18	13.94	64.87	−3 + 4	13.47	14.83	+1 − 9	10.64	22.48	+4 − 4	5.94	26.77	+1 +11
19	13.97	65.18	−3 0	13.41	15.12	+3 − 9	10.51	22.68	+4 + 1	5.77	26.83	0 +12
20	14.00	65.49	−2 − 4	13.35	15.42	+4 − 6	10.38	22.88	+3 + 6	5.59	26.89	−2 +10
21	14.02	65.81	−1 − 7	13.29	15.71	+4 − 2	10.25	23.08	+2 +10	5.42	26.95	−3 + 5
22	14.04	66.12	0 − 9	13.22	16.00	+4 + 3	10.12	23.27	+1 +12	5.24	27.00	−3 0
23	14.06	66.44	+2 − 9	13.15	16.28	+3 + 7	9.98	23.46	−1 +11	5.07	27.04	−2 − 6
24	14.07	66.75	+3 − 8	13.08	16.56	+1 +10	9.84	23.64	−2 + 8	4.89	27.08	−1 −10
25	14.08	67.07	+4 − 5	13.00	16.84	0 +11	9.70	23.82	−3 + 3	4.72	27.11	0 −11
26	14.09	67.39	+4 0	12.92	17.12	−2 +10	9.56	23.99	−3 − 3	4.54	27.14	+1 −11
27	14.10	67.70	+3 + 5	12.84	17.40	−3 + 6	9.42	24.16	−2 − 7	4.37	27.16	+2 − 7
28	14.11	68.02	+2 + 9	12.76	17.67	−3 0	9.28	24.33	−1 −11	4.19	27.18	+2 − 3
29	14.11	68.34	0 +11	12.68	17.94	−3 − 5	9.13	24.49	0 −11	4.01	27.19	+2 + 2
30	14.11	68.65	−1 +11	12.60	18.21	−2 − 9	8.98	24.65	+2 −10	3.83	27.20	+1 + 6
31	14.10	68.97	−3 + 8	12.51	18.48	0 −11	8.83	24.80	+2 − 6	3.66	27.21	0 + 9
32	14.09	69.29	−3 + 4				8.68	24.95	+2 − 1	3.48	27.21	−2 + 9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 50″	7.319	+7.250	+82° 9′ 10″	7.324	+7.256	+82° 9′ 20″	7.327	+7.258
60	7.322	+7.253	20	7.327	+7.258	30	7.329	+7.261

$\alpha_{1930.0} = 16^h\ 53^m\ 4^s.56$ $\delta_{1930.0} = +82°\ 9'\ 18''.79$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^m.40$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$16^h\,52^m$	+82° 9′	in $0^s.01$ $0''.01$	$16^h\,52^m$	+82° 9′	in $0^s.01$ $0''.01$	$16^h\,52^m$	+82° 9′	in $0^s.01$ $0''.01$	$16^h\,52^m$	+82° 8′	in $0^s.01$ $0''.01$
1	63.48	27.21	−2 + 9	58.15	24.82	−3 + 3	53.53	17.88	0 − 9	51.00	68.00	+3 − 7
2	63.30	27.20	−3 + 8	57.98	24.66	−3 − 1	53.41	17.59	+1 −10	50.96	67.64	+4 − 3
3	63.12	27.19	−3 + 5	57.81	24.50	−2 − 4	53.29	17.30	+2 − 9	50.92	67.28	+4 + 1
4	62.94	27.17	−3 + 2	57.65	24.33	−1 − 8	53.17	17.01	+3 − 6	50.88	66.92	+3 + 6
5	62.76	27.15	−3 − 2	57.48	24.16	0 − 9	53.05	16.71	+4 − 2	*)50.85	66.55	+2 + 9
6	62.58	27.12	−2 − 6	57.31	23.98	+2 − 9	52.94	16.41	+4 + 3	50.82	66.19	0 +11
7	62.40	27.09	−1 − 8	57.15	23.80	+3 − 8	52.83	16.11	+3 + 7	50.79	65.83	−1 +11
8	62.22	27.05	+1 − 9	56.98	23.61	+4 − 4	52.72	15.80	+1 +10	50.77	65.46	−3 + 8
9	62.04	27.01	+2 − 9	56.82	23.42	+4 0	52.61	15.49	0 +11	50.75	65.10	−3 + 3
10	61.86	26.96	+3 − 7	56.66	23.22	+3 + 5	52.51	15.17	−2 +10	50.73	64.73	−3 − 3
11	61.68	26.91	+4 − 3	56.50	23.02	+2 + 9	52.41	14.85	−3 + 6	50.72	64.36	−2 − 7
12	61.50	26.85	+4 + 2	56.35	22.82	+1 +11	52.31	14.53	−3 + 1	50.71	64.00	−1 −11
13	61.32	26.79	+3 + 7	56.19	22.61	−1 +11	52.22	14.21	−3 − 5	50.70	63.63	+1 −11
14	61.14	26.72	+2 +10	56.03	22.40	−2 + 9	52.13	13.89	−1 − 9	50.70	63.26	+2 − 9
15	60.96	26.65	0 +12	55.88	22.19	−3 + 4	52.04	13.56	0 −11	50.70	62.90	+3 − 5
16	60.78	26.57	−1 +11	55.72	21.97	−3 − 1	51.96	13.23	+1 −11	50.70	62.53	+3 − 1
17	60.60	26.49	−2 + 7	55.57	21.75	−2 − 6	51.88	12.90	+3 − 8	50.71	62.16	+2 + 4
18	60.42	26.40	−3 + 2	55.42	21.52	−1 −10	51.80	12.56	+3 − 3	50.72	61.80	+1 + 8
19	60.25	26.31	−3 − 3	55.27	21.29	+1 −11	51.72	12.22	+2 + 2	50.73	61.43	−1 +10
20	60.07	26.21	−2 − 8	55.13	21.05	+2 −10	51.64	11.88	+1 + 6	50.75	61.07	−2 + 9
21	59.89	26.11	0 −11	54.98	20.81	+3 − 6	51.57	11.53	0 + 9	50.77	60.71	−3 + 7
22	59.72	26.00	+1 −11	54.84	20.56	+3 − 1	51.50	11.19	−1 +10	50.79	60.34	−3 + 4
23	59.54	25.89	+2 − 9	54.70	20.31	+2 + 3	51.43	10.84	−2 + 9	50.81	59.98	−3 0
24	59.36	25.77	+2 − 5	54.56	20.06	+1 + 7	51.37	10.49	−3 + 6	50.84	59.62	−2 − 4
25	59.19	25.65	+2 0	54.43	19.80	−1 + 9	51.31	10.14	−3 + 2	50.87	59.26	−1 − 7
26	59.01	25.52	+1 + 5	54.29	19.54	−2 + 9	51.25	9.79	−3 − 2	50.90	58.91	0 − 9
27	58.84	25.39	0 + 8	54.16	19.27	−3 + 8	51.20	9.43	−2 − 5	50.94	58.55	+2 − 9
28	58.66	25.25	−1 + 9	54.03	19.00	−4 + 4	51.15	9.08	−1 − 8	50.98	58.20	+3 − 8
29	58.49	25.11	−2 + 9	53.90	18.73	−3 + 1	51.10	8.72	0 −10	51.02	57.85	+4 − 5
30	58.32	24.97	−3 + 7	53.77	18.45	−3 − 3	51.05	8.36	+2 − 9	51.06	57.50	+4 0
31	58.15	24.82	−3 + 3	53.65	18.17	−2 − 7	51.00	8.00	+3 − 7	51.11	57.16	+4 + 4
32				53.53	17.88	0 − 9				51.16	56.81	+3 + 8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 50″	7.319	+7.250	+82° 9′ 10″	7.324	+7.256	+82° 9′ 20″	7.327	+7.258
60	7.322	+7.253	20	7.327	+7.258	30	7.329	+7.261

$\alpha_{1930.0} = 16^h\ 53^m\ 4^s.56$ $\delta_{1930.0} = +82°\ 9'\ 18''.79$

*) Tag der doppelten unteren Kulmination: Dez. 5

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^m.44$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$17^h 54^m$	+86° 36′	in 0.01s 0.01″	$17^h 54^m$	+86° 36′	in 0.01s 0.01″	$17^h 54^m$	+86° 36′	in 0.01s 0.01″	$17^h 54^m$	+86° 36′	in 0.01s 0.01″
1	29.35	38.18	−6 +7	32.98	28.27	−4 −7	40.96	22.56	−2 −9	51.86	21.73	+11 −4
2	29.36	37.83	−7 +3	33.20	28.00	0 −10	41.30	22.44	+2 −10	52.20	21.80	+12 +1
3	29.38	37.49	−7 −1	33.43	27.74	+4 −10	41.64	22.33	+6 −10	52.54	21.88	+10 +6
4	29.41	37.14	−5 −5	33.66	27.48	+8 −9	41.98	22.22	+10 −7	52.88	21.97	+7 +9
5	29.44	36.79	−2 −8	33.90	27.22	+11 −5	42.32	22.12	+12 −2	53.22	22.06	+2 +11
6	29.48	36.45	+2 −10	34.14	26.96	+12 0	42.67	22.02	+12 +3	53.56	22.16	−3 +10
7	29.53	36.11	+6 −10	34.39	26.71	+11 +5	43.02	21.93	+9 +7	53.89	22.26	−7 +7
8	29.58	35.77	+10 −8	34.64	26.47	+8 +9	43.37	21.85	+6 +10	54.22	22.37	−9 +2
9	29.64	35.43	+12 −3	34.90	26.23	+4 +11	43.72	21.77	+1 +11	54.55	22.49	−9 −3
10	29.71	35.09	+12 +1	35.16	25.99	−2 +11	44.07	21.70	−4 +9	54.87	22.61	−7 −8
11	29.79	34.75	+10 +6	35.43	25.76	−6 +8	44.42	21.63	−8 +5	55.19	22.74	−3 −11
12	29.87	34.41	+6 +10	35.70	25.54	−9 +3	44.78	21.57	−9 0	55.51	22.87	+1 −11
13	29.96	34.08	+1 +11	35.98	25.32	−10 −2	45.13	21.52	−9 −5	55.82	23.01	+4 −9
14	30.06	33.75	−4 +10	36.26	25.11	−8 −7	45.49	21.47	−6 −9	56.13	23.16	+6 −5
15	30.17	33.42	−9 +6	36.55	24.90	−5 −10	45.84	21.43	−2 −11	56.44	23.31	+7 0
16	30.28	33.09	−11 +1	36.84	24.69	−1 −11	46.20	21.40	+2 −10	56.75	23.46	+5 +5
17	30.40	32.77	−10 −4	37.14	24.49	+2 −9	46.56	21.37	+5 −7	57.05	23.62	+3 +8
18	30.52	32.45	−8 −9	37.44	24.30	+5 −5	46.91	21.35	+6 −3	57.35	23.79	0 +10
19	30.65	32.13	−4 −11	37.74	24.11	+6 −1	47.27	21.33	+6 +2	57.64	23.96	−4 +10
20	30.79	31.81	0 −10	38.05	23.93	+5 +4	47.63	21.32	+4 +6	57.93	24.13	−6 +8
21	30.94	31.50	+3 −8	38.36	23.75	+3 +7	47.98	21.32	+1 +9	58.22	24.31	−8 +5
22	31.10	31.19	+5 −4	38.68	23.58	0 +9	48.34	21.33	−2 +10	58.50	24.50	−8 +1
23	31.26	30.88	+6 +1	39.00	23.42	−3 +10	48.70	21.34	−5 +9	58.78	24.69	−7 −3
24	31.43	30.58	+5 +5	39.32	23.26	−5 +8	49.05	21.36	−7 +7	59.05	24.89	−5 −7
25	31.60	30.28	+2 +8	39.64	23.11	−7 +6	49.41	21.39	−8 +3	59.32	25.09	−1 −9
26	31.78	29.98	−1 +10	39.97	22.97	−8 +2	49.76	21.42	−8 −1	59.58	25.29	+3 −10
27	31.96	29.69	−4 +9	40.30	22.83	−8 −2	50.11	21.46	−7 −5	59.84	25.50	+7 −9
28	32.15	29.40	−6 +8	40.63	22.69	−6 −6	50.47	21.50	−4 −8	60.10	25.71	+10 −6
29	32.35	29.11	−7 +4	40.96	22.56	−2 −9	50.82	21.55	0 −10	60.35	25.92	+11 −1
30	32.55	28.83	−8 0				51.17	21.60	+4 −10	60.60	26.14	+11 +4
31	32.76	28.55	−7 −4				51.52	21.66	+8 −8	60.84	26.36	+8 +8
32	32.98	28.27	−4 −7				51.86	21.73	+11 −4			

δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 20″	16.889	+16.860	+86° 36′ 30″	16.903	+16.873
30	16.903	+16.873	40	16.917	+16.887

$\alpha_{1930.0} = 17^h\ 54^m\ 47^s.88$ $\delta_{1930.0} = +86°\ 36'\ 48''.63$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^m.44$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$17^h 55^m$	+86° 36′	in $0^s.01$ $0''.01$	$17^h 55^m$	+86° 36′	in $0^s.01$ $0''.01$	$17^h 54^m$	+86° 36′	in $0^s.01$ $0''.01$	$17^h 54^m$	+86° 36′	in $0^s.01$ $0''.01$
1	$0^s.84$	$26''.36$	+ 8 + 8	$5^s.49$	$34''.91$	− 8 + 6	$64^s.12$	$44''.60$	− 6 −10	$57^s.00$	$52''.88$	+ 6 − 3
2	1.07	26.59	+ 4 +11	5.54	35.22	−10 + 1	63.97	44.90	− 1 −11	56.69	53.10	+ 6 + 2
3	1.30	26.82	− 1 +11	5.59	35.53	−10 − 4	63.82	45.20	+ 3 − 9	56.38	53.32	+ 4 + 6
4	1.53	27.06	− 6 + 8	5.63	35.84	− 7 − 9	63.66	45.50	+ 6 − 5	56.06	53.53	+ 1 + 9
5	1.75	27.30	− 9 + 4	5.66	36.15	− 3 −11	63.50	45.80	+ 6 0	55.74	53.74	− 2 +10
6	1.96	27.55	−10 − 1	5.69	36.46	+ 1 −10	63.33	46.09	+ 6 + 4	55.41	53.95	− 6 + 9
7	2.17	27.80	− 9 − 6	5.71	36.78	+ 4 − 8	63.16	46.38	+ 3 + 8	55.08	54.15	− 8 + 6
8	2.37	28.05	− 5 −10	5.72	37.10	+ 7 − 3	62.98	46.67	0 +10	54.74	54.35	− 9 + 3
9	2.57	28.30	− 1 −11	5.73	37.41	+ 7 + 1	62.79	46.96	− 3 +10	54.40	54.55	− 8 − 1
10	2.76	28.56	+ 3 −10	5.73	37.73	+ 5 + 6	62.59	47.25	− 6 + 8	54.06	54.74	− 7 − 5
11	2.95	28.82	+ 6 − 6	5.73	38.05	+ 3 + 9	62.39	47.54	− 8 + 5	53.71	54.93	− 3 − 8
12	3.13	29.08	+ 7 − 2	5.72	38.36	− 1 +10	62.19	47.82	− 8 + 1	53.36	55.11	+ 1 −10
13	3.31	29.35	+ 7 + 3	5.70	38.68	− 4 + 9	61.98	48.10	− 7 − 3	53.00	55.29	+ 5 −10
14	3.48	29.62	+ 4 + 7	5.67	39.00	− 7 + 7	61.76	48.37	− 5 − 7	52.64	55.46	+ 9 − 8
15	3.64	29.90	+ 1 + 9	5.64	39.31	− 8 + 4	61.54	48.65	− 2 − 9	52.28	55.63	+12 − 4
16	3.80	30.18	− 2 +10	5.60	39.63	− 8 0	61.32	48.92	+ 3 −10	51.92	55.80	+12 + 1
17	3.95	30.46	− 5 + 9	5.56	39.95	− 7 − 4	61.09	49.19	+ 7 − 9	51.55	55.96	+11 + 6
18	4.10	30.74	− 7 + 6	5.51	40.26	− 4 − 8	60.85	49.46	+10 − 6	51.18	56.12	+ 8 + 9
19	4.24	31.02	− 8 + 2	5.45	40.58	0 −10	60.61	49.72	+12 − 2	50.80	56.27	+ 3 +11
20	4.37	31.31	− 8 − 2	5.38	40.89	+ 4 −10	60.36	49.98	+12 + 3	50.42	56.42	− 2 +10
21	4.50	31.60	− 6 − 6	{ 5.31 5.23	41.20 41.52	+ 8 − 8 +11 − 5 }	60.11	50.24	+10 + 7	50.04	56.57	− 6 + 7
22	4.62	31.89	− 3 − 9	5.14	41.83	+12 0	59.85	50.49	+ 6 +10	49.66	56.71	− 9 + 2
23	4.73	32.18	+ 1 −10	5.05	42.14	+11 + 5	59.59	50.74	+ 1 +11	49.27	56.85	− 9 − 3
24	4.83	32.48	+ 6 −10	4.96	42.45	+ 8 + 9	59.32	50.99	− 4 + 9	48.88	56.98	− 8 − 8
25	4.93	32.78	+ 9 − 7	4.86	42.76	+ 3 +11	59.05	51.24	− 8 + 5	48.49	57.11	− 4 −11
26	5.03	33.08	+11 − 3	4.75	43.07	− 2 +11	58.77	51.49	−10 0	48.09	57.23	0 −11
27	5.12	33.38	+11 + 2	4.64	43.38	− 7 + 8	58.49	51.73	− 9 − 5	47.69	57.35	+ 3 − 8
28	5.20	33.68	+ 9 + 6	4.52	43.68	−10 + 3	58.20	51.97	− 7 − 9	47.29	57.46	+ 6 − 4
29	5.28	33.98	+ 6 +10	4.39	43.99	−11 − 2	57.91	52.20	− 3 −11	46.89	57.57	+ 6 + 1
30	5.36	34.29	0 +11	4.26	44.30	− 9 − 7	57.61	52.43	+ 1 −10	46.48	57.67	+ 5 + 5
31	5.43	34.60	− 5 +10	4.12	44.60	− 6 −10	57.31	52.66	+ 4 − 7	46.07	57.77	+ 2 + 8
32	5.49	34.91	− 8 + 6				57.00	52.88	+ 6 − 3	45.66	57.87	− 2 +10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 20″	16.889	+16.860	+86° 36′ 40″	16.917	+16.887	+86° 36′ 50″	16.931	+16.901
30	16.903	+16.873	50	16.931	+16.901	60	16.945	+16.915

$\alpha_{1930.0} = 17^h\ 54^m\ 47^s.88$ $\delta_{1930.0} = +86°\ 36'\ 48''.63$

Nh) δ Ursae minoris $4^m.44$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$17^h 54^m$	+86° 36′	in 0.01^s $0.01''$	$17^h 54^m$	+86° 36′	in 0.01^s $0.01''$	$17^h 54^m$	+86° 36′	in 0.01^s $0.01''$	$17^h 54^m$	+86° 36′	in 0.01^s $0.01''$
1	$45^s.66$	$57''.87$	−2 +10	$32^s.77$	$58''.53$	−9 +6	$20^s.15$	$54''.56$	−4 −8	$11^s.30$	$46''.75$	+6 −9
2	45.24	57.96	−5 +10	32.34	58.48	−10 +2	19.79	54.36	−1 −10	11.09	46.44	+10 −6
3	44.83	58.05	−8 +8	31.90	58.42	−9 −2	19.43	54.15	+4 −10	10.89	46.13	+11 −2
4	44.41	58.13	−9 +4	31.47	58.35	−7 −6	19.07	53.94	+7 −8	10.69	45.81	+11 +3
5	43.99	58.21	−9 0	31.04	58.28	−3 −9	18.72	53.72	+10 −5	10.50	45.49	+9 +7
6	43.57	58.28	−8 −4	30.61	58.21	+1 −10	18.37	53.50	+11 0	10.31	45.17	+5 +10
7	43.15	58.35	−5 −7	30.19	58.13	+5 −9	18.03	53.28	+11 +5	10.13	44.85	0 +11
8	42.73	58.41	−1 −9	29.76	58.05	+9 −7	17.69	53.05	+8 +9	9.96	44.52	−5 +9
9	42.30	58.47	+3 −10	29.33	57.96	+11 −3	17.36	52.82	+3 +11	9.80	44.19	−8 +5
10	41.87	58.53	+7 −9	28.91	57.86	+11 +2	17.03	52.58	−1 +11	9.65	43.86	−10 0
11	41.45	58.58	+10 −6	28.49	57.76	+10 +7	16.70	52.34	−6 +8	9.50	43.53	−9 −5
12	41.02	58.62	+12 −1	28.07	57.66	+6 +10	16.38	52.09	−9 +3	9.36	43.19	−6 −9
13	40.59	58.66	+12 +4	27.65	57.55	+2 +11	16.06	51.84	−9 −2	9.22	42.86	−2 −11
14	40.16	58.70	+9 +8	27.23	57.43	−3 +10	15.75	51.59	−7 −7	9.09	42.52	+2 −10
15	39.73	58.73	+5 +11	26.81	57.31	−7 +6	15.44	51.33	−4 −10	8.97	42.18	+6 −7
16	39.30	58.75	0 +11	26.40	57.19	−9 +1	15.14	51.07	0 −11	8.85	41.84	+7 −2
17	38.86	58.77	−4 +9	25.99	57.06	−8 −4	14.85	50.81	+4 −9	8.74	41.50	+7 +3
18	38.43	58.79	−8 +4	25.58	56.93	−6 −9	14.56	50.54	+7 −5	8.64	41.15	+5 +7
19	37.99	58.80	−9 −1	25.17	56.79	−2 −11	14.27	50.27	+8 0	8.55	40.81	+1 +10
20	37.56	58.80	−8 −6	24.77	56.65	+2 −11	13.99	49.99	+6 +4	*) 8.46	40.47	−3 +10
21	37.12	58.80	−5 −10	24.37	56.50	+5 −8	13.72	49.71	+3 +8	8.38	40.12	−6 +9
22	36.69	58.80	−1 −11	23.97	56.35	+7 −3	13.45	49.43	0 +10	8.31	39.78	−8 +6
23	36.25	58.79	+3 −10	23.57	56.19	+7 +1	13.19	49.15	−4 +10	8.25	39.44	−9 +2
24	35.82	58.77	+6 −6	23.18	56.03	+5 +6	12.93	48.86	−7 +8	8.19	39.09	−9 −2
25	35.38	58.75	+7 −1	22.79	55.86	+2 +9	12.68	48.57	−9 +5	8.14	38.75	−7 −6
26	34.95	58.73	+6 +3	22.40	55.69	−2 +10	12.43	48.27	−9 +1	8.10	38.40	−3 −9
27	34.51	58.70	+3 +7	22.02	55.51	−6 +9	12.19	47.97	−8 −3	8.06	38.05	+1 −10
28	34.07	58.67	0 +10	21.64	55.33	−8 +7	11.96	47.67	−6 −7	8.03	37.71	+5 −10
29	33.64	58.63	−4 +10	21.26	55.14	−10 +3	11.73	47.37	−2 −9	8.01	37.36	+9 −7
30	33.20	58.58	−7 +9	20.89	54.95	−9 −1	11.51	47.06	+2 −10	8.00	37.02	+11 −3
31	32.77	58.53	−9 +6	20.52	54.76	−8 −5	11.30	46.75	+6 −9	8.00	36.67	+12 +1
32				20.15	54.56	−4 −8				8.00	36.32	+11 +6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 30″	16.903	+16.873	+86° 36′ 40″	16.917	+16.887	+86° 36′ 50″	16.931	+16.901
40	16.917	+16.887	50	16.931	+16.901	60	16.945	+16.915

$\alpha_{1930.0} = 17^h\ 54^m\ 47^s.88$ $\delta_{1930.0} = +86°\ 36'\ 48''.63$

*) Tag der doppelten unteren Kulmination: Dez. 20

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^{m}.55$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$18^{h}45^{m}$	+ 89° 1′	in 0.01s	0.01″	$18^{h}45^{m}$	+ 89° 1′	in 0.01s	0.01″	$18^{h}45^{m}$	+ 89° 1′	in 0.01s	0.01″	$18^{h}46^{m}$	+ 89° 1′	in 0.01s	0.01″
1	34.84	57.44	−18	+ 8	37.95	47.28	−21	− 6	59.71	40.27	−16	− 8	35.56	37.36	+37	− 7
2	*)34.55	57.10	−25	+ 5	38.45	46.98	− 9	−10	60.74	40.09	− 2	−11	36.77	37.36	+44	− 2
3	34.29	56.77	−28	0	38.97	46.68	+ 7	−11	61.78	39.91	+15	−11	37.99	37.37	+43	+ 3
4	34.06	56.43	−25	− 4	39.52	46.38	+24	−10	62.84	39.74	+31	− 9	39.20	37.39	+34	+ 8
5	33.85	56.10	−16	− 8	40.09	46.09	+39	− 8	63.90	39.57	+43	− 5	40.40	37.41	+17	+11
6	33.67	55.77	− 2	−10	40.69	45.80	+48	− 3	64.98	39.41	+47	0	41.61	37.44	− 2	+11
7	33.51	55.43	+15	−11	41.30	45.51	+48	+ 2	66.07	39.26	+43	+ 5	42.81	37.48	−21	+ 8
8	33.38	55.10	+31	−10	41.94	45.23	+39	+ 7	67.17	39.11	+30	+ 9	44.01	37.52	−34	+ 4
9	33.27	54.76	+43	− 6	42.59	44.95	+23	+10	68.28	38.97	+11	+11	45.20	37.57	−38	− 1
10	33.19	54.43	+48	− 1	43.27	44.68	+ 3	+11	69.40	38.83	− 9	+10	46.39	37.62	−34	− 6
11	33.14	54.09	+44	+ 4	43.97	44.41	−18	+ 9	70.53	38.70	−26	+ 7	47.57	37.68	−23	−10
12	33.11	53.75	+32	+ 8	44.69	44.14	−33	+ 5	71.66	38.58	−36	+ 2	48.75	37.74	− 7	−11
13	33.11	53.42	+12	+11	45.42	43.88	−40	0	72.80	38.46	−38	− 3	49.92	37.81	+ 8	− 9
14	33.14	53.08	− 9	+10	46.18	43.62	−39	− 5	73.96	38.35	−31	− 7	51.08	37.89	+20	− 6
15	33.19	52.75	−28	+ 8	46.96	43.36	−29	− 9	75.12	38.24	−18	−10	52.24	37.97	+26	− 1
16	33.27	52.41	−40	+ 3	47.76	43.11	−15	−10	76.28	38.14	− 3	−10	53.39	38.06	+25	+ 3
17	33.37	52.08	−44	− 2	48.57	42.86	+ 1	− 9	77.46	38.04	+12	− 8	54.53	38.15	+18	+ 7
18	33.50	51.74	−38	− 7	49.41	42.62	+14	− 6	78.64	37.95	+21	− 4	55.66	38.25	+ 8	+10
19	33.66	51.41	−26	− 9	50.26	42.38	+22	− 2	79.83	37.87	+25	+ 1	56.79	38.36	− 5	+10
20	33.84	51.09	−10	−10	51.13	42.14	+23	+ 2	81.02	37.79	+22	+ 5	57.90	38.47	−17	+ 9
21	34.05	50.76	+ 6	− 8	52.02	41.91	+18	+ 6	82.22	37.72	+13	+ 8	59.01	38.59	−26	+ 6
22	34.28	50.43	+17	− 5	52.93	41.69	+ 9	+ 9	83.42	37.66	+ 2	+10	60.10	38.71	−31	+ 3
23	34.54	50.11	+23	0	53.85	41.47	− 2	+10	84.63	37.60	−10	+10	61.19	38.84	−30	− 2
24	34.82	49.78	+22	+ 4	54.79	41.26	−14	+ 9	85.83	37.55	−21	+ 8	62.26	38.97	−24	− 6
25	35.12	49.46	+16	+ 7	55.74	41.05	−24	+ 7	87.04	37.50	−28	+ 5	63.33	39.11	−13	− 9
26	35.45	49.14	+ 7	+10	56.71	40.85	−30	+ 3	88.26	37.46	−32	+ 1	64.38	39.26	+ 2	−11
27	35.81	48.82	− 5	+10	57.70	40.65	−31	− 1	89.47	37.43	−29	− 3	65.42	39.41	+18	−10
28	36.19	48.51	−16	+ 9	58.70	40.46	−26	− 5	90.69	37.40	−21	− 7	66.44	39.56	+32	− 8
29	36.59	48.20	−25	+ 6	59.71	40.27	−16	− 8	91.91	37.38	− 8	−10	67.46	39.72	+42	− 4
30	37.02	47.89	−29	+ 2					93.12	37.37	+ 7	−11	68.46	39.89	+44	+ 1
31	37.47	47.58	−28	− 2					94.34	37.36	+24	−10	69.45	40.06	+37	+ 6
32	37.95	47.28	−21	− 6					95.56	37.36	+37	− 7				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 1′ 30″	58.768	+58.759	+89° 1′ 40″	58.936	+58.927	+89° 1′ 50″	59.104	+59.096
40	58.936	+58.927	50	59.104	+59.096	60	59.274	+59.266

$\alpha_{1930.0} = 18^{h}\ 46^{m}\ 45^{s}.78$ $\delta_{1930.0} = +89°\ 2'\ 4''.05$

*) Tag der doppelten unteren Kulmination: Jan. 2

Obere Kulmination Greenwich

Ni) λ Ursae minoris 6^m.55

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	18^h 47^m	+ 89° 1′	in 0.01^s 0.01″	18^h 47^m	+ 89° 1′	in 0.01^s 0.01″	18^h 47^m	+ 89° 1′	in 0.01^s 0.01″	18^h 46^m	+ 89° 2′	in 0.01^s 0.01″
1	9.45^s	40.06″	+37 + 6	31.92^s	47.39″	−28 + 8	35.05^s	56.71″	−41 − 5	76.94^s	6.44″	+20 − 4
2	10.43	40.24	+23 +10	32.34	47.68	−39 + 3	34.82	57.03	−30 − 9	76.04	6.72	+24 + 1
3	11.39	40.42	+ 4 +11	32.74	47.97	−42 − 2	34.56	57.35	−14 −11	75.13	6.99	+21 + 6
4	12.34	40.60	−16 +10	33.12	48.26	−36 − 7	{34.27 {33.97	57.67 57.99	+ 3 − 9} +16 − 6}	74.20	7.26	+12 + 9
5	13.27	40.79	−32 + 6	33.48	48.56	−23 −10	33.64	58.31	+24 − 2	73.26	7.52	− 1 +10
6	14.19	40.98	−39 + 1	33.82	48.86	− 5 −10	33.30	58.62	+25 + 3	72.29	7.79	−13 +10
7	15.09	41.18	−38 − 4	34.14	49.16	+11 − 8	32.93	58.94	+19 + 7	71.31	8.05	−24 + 8
8	15.97	41.38	−29 − 8	34.43	49.46	+22 − 5	32.53	59.25	+ 9 +10	70.31	8.31	−31 + 5
9	16.84	41.59	−14 −11	34.70	49.76	+27 0	32.12	59.57	− 4 +10	69.29	8.57	−33 0
10	17.70	41.80	+ 3 −10	34.94	50.07	+25 + 4	31.69	59.88	−16 + 9	68.26	8.82	−29 − 4
11	18.54	42.02	+17 − 7	35.17	50.38	+17 + 8	31.23	60.20	−26 + 7	67.21	9.07	−20 − 7
12	19.36	42.24	+26 − 3	35.38	50.69	+ 6 +10	30.75	60.51	−31 + 3	66.15	9.32	− 6 −10
13	20.17	42.46	+28 + 2	35.56	51.00	− 7 +10	30.25	60.83	−31 − 1	65.07	9.56	+11 −11
14	20.96	42.69	+23 + 6	35.72	51.31	−19 + 8	29.73	61.14	−25 − 5	63.98	9.80	+27 −10
15	21.73	42.92	+13 + 9	35.85	51.62	−27 + 5	29.19	61.45	−14 − 9	62.87	10.04	+41 − 6
16	22.48	43.16	0 +10	35.97	51.93	−31 + 1	28.63	61.76	+ 1 −11	61.74	10.27	+49 − 2
17	23.21	43.40	−12 +10	36.07	52.25	−29 − 3	28.05	62.07	+18 −11	60.60	10.50	+48 + 3
18	23.93	43.64	−22 + 8	36.14	52.56	−21 − 7	27.45	62.38	+34 − 9	59.44	10.73	+39 + 7
19	24.62	43.89	−29 + 4	36.19	52.88	− 8 −10	26.83	62.68	+45 − 5	58.26	10.95	+22 +10
20	25.30	44.14	−31 0	36.21	53.19	+ 8 −11	26.19	62.98	+49 0	57.08	11.17	+ 2 +11
21	25.96	44.39	−26 − 4	36.22	53.51	+24 −10	25.53	63.28	+44 + 5	55.88	11.39	−17 + 8
22	26.60	44.65	−17 − 8	36.21	53.83	+38 − 7	24.84	63.58	+31 + 9	54.66	11.60	−32 + 4
23	27.22	44.91	− 3 −10	36.17	54.14	+46 − 3	24.14	63.88	+12 +11	53.44	11.81	−38 − 1
24	27.83	45.17	+13 −11	36.11	54.46	+46 + 2	23.42	64.17	− 9 +10	52.20	12.02	−35 − 6
25	28.41	45.44	+28 − 9	36.02	54.78	+37 + 7	22.68	64.46	−27 + 7	50.94	12.22	−24 − 9
26	28.97	45.71	+40 − 6	35.91	55.10	+21 +10	21.92	64.75	−38 + 2	49.67	12.42	− 9 −10
27	29.51	45.98	+45 − 1	35.79	55.42	+ 1 +11	21.13	65.04	−41 − 3	48.39	12.61	+ 6 − 9
28	30.03	46.26	+41 + 4	35.64	55.75	−20 + 9	20.33	65.33	−34 − 8	47.10	12.80	+18 − 5
29	30.54	46.54	+29 + 8	35.46	56.07	−35 + 5	19.51	65.61	−21 −10	45.80	12.99	+24 − 1
30	31.02	46.82	+11 +11	35.27	56.39	−42 0	18.67	65.89	− 5 −10	44.48	13.17	+22 + 4
31	31.48	47.10	− 9 +10	35.05	56.71	−41 − 5	17.81	66.17	+10 − 8	43.15	13.35	+14 + 8
32	31.92	47.39	−28 + 8				16.94	66.44	+20 − 4	41.81	13.53	+ 3 +10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 1′ 40″	58.936	+58.927	+89° 1′ 50″	59.104	+59.096	+89° 2′ 10″	59.445	+59.437
50	59.104	+59.096	60	59.274	+59.266	20	59.617	+59.608

$\alpha_{1930.0}$ = 18^h 46^m 45^s.78 $\delta_{1930.0}$ = +89° 2′ 4″.05

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Ni) λ Ursae minoris 6ᵐ.55

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$18^h 45^m$	+ 89° 2′	in $0^s.01$ $0''.01$	$18^h 45^m$	+ 89° 2′	in $0^s.01$ $0''.01$	$18^h 44^m$	+ 89° 2′	in $0^s.01$ $0''.01$	$18^h 44^m$	+ 89° 2′	in $0^s.01$ $0''.01$
1	$101^s.81$	$13''.53$	+ 3 +10	$57^s.71$	$16''.72$	−29 + 8	$70^s.43$	$15''.43$	−24 − 7	$32^s.68$	$9''.71$	+16 −10
2	100.46	13.70	−10 +11	56.16	16.76	−35 + 4	68.99	15.31	−11 − 9	31.67	9.45	+31 − 8
3	99.10	13.87	−22 + 9	54.61	16.79	−35 0	67.56	15.18	+ 5 −11	30.68	9.19	+42 − 4
4	97.72	14.03	−31 + 6	53.06	16.82	−30 − 5	66.13	15.05	+21 −10	29.72	8.93	+45 0
5	96.34	14.19	−35 + 2	51.50	16.84	−20 − 8	64.72	14.91	+35 − 7	28.77	8.66	+41 + 5
6	94.94	14.34	−33 − 2	49.95	16.85	− 5 −10	63.32	14.77	+43 − 3	27.84	8.39	+28 + 9
7	93.54	14.49	−26 − 6	48.40	16.86	+11 −10	61.93	14.62	+44 + 2	26.93	8.12	+10 +11
8	92.13	14.63	−13 − 9	46.85	16.87	+27 − 9	60.55	14.47	+36 + 7	26.05	7.84	−10 +10
9	90.70	14.77	+ 2 −11	45.29	16.87	+40 − 5	59.18	14.31	+22 +10	25.18	7.56	−27 + 7
10	89.27	14.91	+19 −10	43.74	16.86	+45 − 1	57.82	14.15	+ 3 +11	24.34	7.27	−37 + 2
11	87.84	15.04	+34 − 8	42.18	16.85	+43 + 4	56.48	13.98	−16 + 9	23.52	6.98	−39 − 3
12	86.39	15.17	+45 − 4	40.63	16.83	+33 + 8	55.15	13.81	−30 + 5	22.72	6.69	−31 − 8
13	84.94	15.29	+48 + 1	39.08	16.81	+17 +10	53.83	13.63	−37 0	21.94	6.40	−17 −11
14	83.47	15.41	+42 + 6	37.53	16.78	− 3 +10	52.52	13.45	−34 − 5	21.19	6.10	0 −11
15	82.00	15.52	+29 + 9	35.99	16.75	−20 + 7	51.23	13.27	−24 − 9	20.46	5.80	+16 − 8
16	80.53	15.63	+11 +11	34.44	16.71	−32 + 3	49.95	13.08	− 8 −11	19.75	5.50	+26 − 4
17	79.04	15.74	− 9 + 9	32.90	16.67	−35 − 2	48.68	12.88	+ 9 −10	19.07	5.19	+29 + 1
18	77.55	15.84	−25 + 6	31.37	16.62	−30 − 7	47.43	12.68	+22 − 7	18.41	4.89	+24 + 6
19	76.05	15.94	−35 + 1	29.84	16.57	−17 −10	46.19	12.48	+29 − 2	17.77	4.58	+13 + 9
20	74.55	16.03	−35 − 5	28.31	16.51	− 1 −11	44.97	12.27	+28 + 3	17.16	4.26	− 1 +11
21	73.04	16.12	−27 − 9	26.79	16.45	+14 − 9	43.77	12.06	+20 + 7	16.57	3.95	−15 +10
22	71.53	16.20	−13 −11	25.27	16.38	+24 − 5	42.58	11.84	+ 8 +10	16.01	3.63	−27 + 8
23	70.01	16.28	+ 3 −10	23.76	16.31	+28 0	41.41	11.62	− 7 +11	15.47	3.32	−34 + 4
24	68.49	16.35	+16 − 7	22.25	16.23	+24 + 5	40.25	11.40	−21 + 9	14.96	3.00	−35 0
25	66.96	16.42	+24 − 3	20.75	16.15	+14 + 8	39.12	11.17	−30 + 7	14.47	2.67	−30 − 4
26	65.43	16.48	+ [illegible] + 2	19.25	16.06	+ 1 +11	38.00	10.94	−35 + 3	14.00	2.35	−20 − 8
27	63.89	16.54	+ 9 + 6	17.76	15.97	−13 +11	36.90	10.70	−34 − 2	13.56	2.03	− 5 −10
28	62.35	16.59	+ 8 +10	16.28	15.87	−26 + 9	35.82	10.46	−28 − 6	13.14	1.70	+11 −11
29	60.80	16.64	− 6 +11	14.80	15.77	−34 + 5	34.75	10.21	−15 − 9	12.75	1.38	+27 − 9
30	59.26	16.68	−19 +10	13.34	15.66	−36 + 1	33.71	9.96	0 −10	12.39	1.05	+40 − 6
31	57.71	16.72	−29 + 8	11.88	15.55	−33 − 3	32.68	9.71	+16 −10	12.05	0.72	+47 − 1
32				10.43	15.43	−24 − 7				11.74	0.38	+45 + 3

δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 0″	59.274	+59.266	+89° 2′ 10″	59.445	+59.437
10	59.445	+59.437	20	59.617	+59.608

$\alpha_{1930.0} = 18^h\ 46^m\ 45^s.78$ $\delta_{1930.0} = +89°\ 2'\ 4''.05$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nk) 76 Draconis $5^m.69$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$20^h 47^m$	+ 82° 16′	in $0^s.01$ $0''.01$	$20^h 47^m$	+ 82° 16′	in $0^s.01$ $0''.01$	$20^h 47^m$	+ 82° 16′	in $0^s.01$ $0''.01$	$20^h 47^m$	+ 82° 16′	in $0^s.01$ $0''.01$
1	36.10	27.87	+1 + 9	34.20	18.37	−3 − 3	35.04	9.37	−3 − 5	38.42	2.32	+1 −11
2	35.99	27.61	−1 + 7	*)34.19	18.04	−3 − 7	35.11	9.08	−3 − 9	38.56	2.17	+3 − 7
3	35.89	27.34	−2 + 4	34.18	17.70	−2 −11	35.18	8.79	−2 −12	38.70	2.03	+4 − 2
4	35.79	27.07	−3 − 1	34.17	17.37	−1 −12	35.26	8.51	0 −12	38.84	1.90	+5 + 3
5	35.69	26.79	−3 − 5	34.17	17.04	+1 −12	35.34	8.23	+2 −10	38.99	1.77	+4 + 7
6	35.60	26.51	−3 − 9	34.17	16.71	+3 − 9	35.43	7.95	+3 − 6	39.13	1.65	+3 +10
7	35.51	26.23	−2 −12	34.17	16.37	+4 − 4	35.52	7.68	+5 − 1	39.28	1.54	+1 +10
8	35.42	25.95	0 −13	34.18	16.04	+5 + 1	35.61	7.41	+5 + 4	39.42	1.43	−1 + 8
9	35.34	25.66	+2 −11	34.19	15.70	+4 + 6	35.70	7.14	+4 + 8	39.57	1.32	−3 + 3
10	35.26	25.37	+3 − 7	34.21	15.37	+3 + 9	35.79	6.88	+2 +10	39.72	1.22	−4 − 1
11	35.18	25.07	+4 − 2	34.23	15.03	+1 +10	35.89	6.62	0 + 9	39.87	1.13	−4 − 6
12	35.11	24.77	+5 + 4	34.25	14.70	−1 + 9	35.99	6.37	−2 + 6	40.02	1.05	−3 − 8
13	35.04	24.47	+4 + 8	34.27	14.38	−3 + 5	36.09	6.12	−4 + 2	40.18	0.97	−2 − 9
14	34.97	24.17	+2 +10	34.30	14.05	−4 0	36.20	5.87	−4 − 3	40.33	0.90	0 − 7
15	34.90	23.86	0 +10	34.33	13.72	−4 − 4	36.31	5.63	−4 − 7	40.48	0.83	+2 − 4
16	34.83	23.55	−2 + 8	34.36	13.40	−4 − 7	36.42	5.40	−3 − 9	40.64	0.77	+3 0
17	34.77	23.24	−4 + 4	34.39	13.08	−2 − 8	36.53	5.17	−1 − 8	40.79	0.71	+3 + 4
18	34.71	22.93	−5 − 1	34.43	12.75	−1 − 7	36.64	4.94	+1 − 6	40.94	0.66	+3 + 8
19	34.65	22.61	−4 − 5	34.47	12.43	+1 − 4	36.75	4.72	+2 − 2	41.10	0.62	+2 +10
20	34.60	22.29	−3 − 8	34.51	12.12	+2 0	36.87	4.51	+3 + 2	41.25	0.58	+1 +10
21	34.55	21.97	−2 − 8	34.56	11.80	+3 + 3	36.99	4.30	+3 + 6	41.41	0.55	0 + 9
22	34.51	21.65	0 − 6	34.61	11.49	+3 + 7	37.11	4.09	+3 + 8	41.57	0.53	−2 + 6
23	34.47	21.32	+2 − 3	34.66	11.18	+3 + 9	37.23	3.89	+2 +10	41.72	0.51	−3 + 2
24	34.43	21.00	+3 + 1	34.72	10.87	+2 +10	37.36	3.70	+1 +10	41.88	0.50	−3 − 2
25	34.39	20.68	+3 + 5	34.78	10.56	0 + 9	37.48	3.51	−1 + 8	42.04	0.50	−3 − 6
26	34.35	20.35	+3 + 8	34.84	10.26	−1 + 7	37.61	3.32	−2 + 5	42.20	0.50	−3 −10
27	34.32	20.02	+2 + 9	34.90	9.96	−2 + 3	37.74	3.14	−3 + 1	42.35	0.51	−1 −12
28	34.29	19.69	+1 +10	34.97	9.66	−3 − 1	37.87	2.97	−3 − 4	42.51	0.52	0 −11
29	34.26	19.36	0 + 8	35.04	9.37	−3 − 5	38.01	2.80	−3 − 8	42.67	0.54	+2 − 9
30	34.24	19.03	−2 + 5				38.14	2.63	−2 −11	42.83	0.57	+4 − 4
31	34.22	18.70	−3 + 1				38.28	2.47	−1 −12	42.99	0.60	+5 + 1
32	34.20	18.37	−3 − 3				38.42	2.32	+1 −11			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 16′ 0″	7.431	+7.364	+82° 16′ 10″	7.434	+7.367	+82° 16′ 20″	7.437	+7.369
10	7.434	+7.367	20	7.437	+7.369	30	7.439	+7.372

$\alpha_{1930.0} = 20^h\ 47^m\ 45^s.97 \qquad \delta_{1930.0} = +82°\ 16'\ 24''.87$

*) Tag der doppelten unteren Kulmination: Feb. 2

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nk) 76 Draconis $5^m.69$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$20^h 47^m$	+82° 16′	in 0.01s	in 0.01″	$20^h 47^m$	+82° 16′	in 0.01s	in 0.01″	$20^h 47^m$	+82° 16′	in 0.01s	in 0.01″	$20^h 47^m$	+82° 16′	in 0.01s	in 0.01″
1	42.99	0.60	+5	+1	47.53	4.53	0	+10	50.48	12.67	−4	0	51.25	23.46	−1	−8
2	43.15	0.64	+4	+6	47.66	4.74	−2	+8	50.54	13.00	−5	−4	51.23	23.83	+1	−6
3	43.30	0.69	+3	+9	47.78	4.96	−4	+3	50.60	13.32	−4	−7	51.21	24.19	+2	−2
4	43.46	0.74	+1	+10	47.91	5.18	−4	−2	50.66	13.65	−2	−9	{51.19 51.16	24.55 24.91	+3 +3	+2} +6}
5	43.62	0.80	−1	+9	48.03	5.41	−4	−6	50.72	13.98	0	−8	51.13	25.27	+3	+9
6	43.77	0.86	−3	+6	48.15	5.64	−3	−8	50.77	14.31	+1	−5	51.10	25.63	+2	+11
7	43.93	0.93	−4	+1	48.27	5.87	−1	−9	50.82	14.65	+3	−1	51.07	25.99	0	+10
8	44.09	1.01	−4	−4	48.38	6.11	0	−7	50.87	14.98	+3	+4	51.03	26.35	−1	+8
9	44.24	1.09	−4	−7	48.50	6.35	+2	−3	50.91	15.32	+3	+7	50.99	26.71	−2	+4
10	44.40	1.18	−2	−9	48.61	6.60	+3	+1	50.95	15.66	+2	+10	50.95	27.07	−3	0
11	44.55	1.27	−1	−8	48.72	6.85	+4	+5	50.99	16.00	+1	+10	50.91	27.43	−4	−4
12	44.71	1.37	+1	−6	48.83	7.11	+3	+8	51.03	16.35	0	+9	50.86	27.78	−3	−8
13	44.86	1.47	+3	−2	48.93	7.37	+2	+10	51.07	16.70	−1	+6	50.81	28.14	−2	−11
14	45.01	1.58	+3	+2	49.04	7.64	+1	+10	51.10	17.04	−3	+3	50.76	28.49	−1	−12
15	45.16	1.70	+3	+6	49.14	7.91	−1	+8	51.13	17.39	−3	−2	50.71	28.85	+1	−11
16	45.30	1.82	+3	+9	49.24	8.18	−2	+5	51.16	17.74	−3	−6	50.65	29.20	+3	−8
17	45.45	1.95	+2	+10	49.34	8.45	−3	+1	51.18	18.09	−3	−10	50.59	29.55	+4	−3
18	45.60	2.08	0	+9	49.43	8.73	−3	−3	51.20	18.44	−1	−12	50.53	29.90	+5	+2
19	45.74	2.22	−1	+7	49.53	9.01	−3	−7	51.22	18.79	0	−12	50.47	30.25	+4	+6
20	45.89	2.37	−2	+4	49.62	9.30	−2	−11	51.24	19.15	+2	−10	50.40	30.60	+3	+9
21	46.03	2.52	−3	−1	49.71	9.59	−1	−12	51.25	19.51	+4	−6	50.33	30.95	+1	+9
22	46.17	2.68	−3	−5	49.80	9.89	+1	−11	51.26	19.87	+5	−1	50.26	31.29	−1	+7
23	46.31	2.84	−3	−9	49.89	10.19	+3	−8	51.27	20.22	+5	+4	50.19	31.63	−3	+3
24	46.45	3.01	−2	−11	49.97	10.49	+4	−4	51.28	20.58	+4	+8	50.11	31.97	−4	−1
25	46.59	3.18	0	−12	50.05	10.79	+5	+1	51.29	20.94	+2	+10	50.03	32.31	−4	−5
26	46.73	3.36	+1	−10	50.13	11.10	+4	+6	51.29	21.30	0	+9	49.95	32.65	−4	−8
27	46.87	3.54	+3	−6	50.20	11.41	+3	+10	51.29	21.66	−2	+7	49.87	32.99	−2	−9
28	47.00	3.73	+4	−1	50.27	11.72	+1	+10	51.29	22.02	−4	+2	49.78	33.32	0	−7
29	47.13	3.92	+4	+4	50.34	12.03	−1	+9	51.28	22.38	−5	−2	49.69	33.66	+2	−3
30	47.27	4.12	+4	+8	50.41	12.35	−3	+5	51.27	22.74	−4	−6	49.60	33.99	+3	+1
31	47.40	4.32	+2	+11	50.48	12.67	−4	0	51.26	23.10	−3	−8	49.51	34.32	+3	+5
32	47.53	4.53	0	+10					51.25	23.46	−1	−8	49.41	34.64	+3	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 16′ 0″	7.431	+7.364	+82° 16′ 10″	7.434	+7.367	+82° 16′ 30″	7.439	+7.372
10	7.434	+7.367	20	7.437	+7.369	40	7.442	+7.375

$\alpha_{1930.0} = 20^h\ 47^m\ 45^s.97$ $\delta_{1930.0} = +82°\ 16'\ 24''.87$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Nk) 76 Draconis $5^m.69$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$20^h 47^m$	$+82° 16'$	in $0^s.01$ $0''.01$	$20^h 47^m$	$+82° 16'$	in $0^s.01$ $0''.01$	$20^h 47^m$	$+82° 16'$	in $0^s.01$ $0''.01$	$20^h 47^m$	$+82° 16'$	in $0^s.01$ $0''.01$
1	$49^s.41$	$34''.64$	+3 +9	$45^s.64$	$43''.03$	0 +10	$40^s.45$	$47''.75$	−4 −3	$35^s.23$	$47''.31$	−1 −11
2	49.31	34.96	+2 +11	45.49	43.25	−2 +8	40.27	47.82	−3 −7	35.07	47.21	0 −11
3	49.21	35.28	+1 +11	45.34	43.47	−3 +4	40.09	47.88	−2 −10	34.91	47.10	+2 −9
4	49.11	35.60	−1 +9	45.18	43.68	−4 0	39.92	47.94	−1 −11	34.75	46.98	+3 −5
5	49.01	35.92	−2 +6	45.02	43.89	−4 −5	39.74	47.99	+1 −10	34.59	46.86	+4 0
6	48.91	36.23	−3 +2	44.87	44.10	−3 −8	39.56	48.04	+2 −8	34.43	46.73	+4 +4
7	48.80	36.54	−4 −2	44.71	44.30	−2 −11	39.38	48.08	+4 −3	34.27	46.60	+4 +8
8	48.69	36.85	−3 −6	44.55	44.50	0 −11	39.20	48.11	+5 +1	34.11	46.46	+2 +10
9	48.58	37.15	−3 −10	44.39	44.69	+2 −10	39.03	48.14	+4 +6	33.96	46.31	0 +9
10	48.46	37.45	−1 −11	44.23	44.88	+3 −6	38.85	48.16	+3 +9	33.81	46.16	−2 +6
11	48.35	37.75	+1 −11	44.06	45.06	+4 −2	38.67	48.18	+1 +10	33.66	46.01	−4 +2
12	48.23	38.05	+2 −9	43.90	45.24	+5 +3	38.49	48.19	−1 +8	33.51	45.85	−5 −3
13	48.11	38.34	+4 −5	43.73	45.42	+4 +7	38.32	48.20	−3 +4	33.37	45.68	−4 −7
14	47.99	38.63	+5 0	43.57	45.59	+2 +9	38.14	48.20	−4 −1	33.22	45.51	−3 −9
15	47.87	38.92	+5 +4	43.40	45.75	0 +9	37.97	48.19	−4 −5	33.08	45.34	−1 −9
16	47.74	39.20	+4 +8	43.23	45.91	−2 +6	37.79	48.18	−3 −9	32.94	45.16	+1 −7
17	47.61	39.48	+2 +9	43.06	46.06	−3 +2	37.61	48.16	−2 −10	32.80	44.97	+2 −2
18	47.48	39.76	0 +8	42.89	46.21	−4 −3	37.44	48.14	0 −9	32.66	44.78	+3 +2
19	47.35	40.03	−2 +5	42.72	46.35	−4 −7	37.26	48.11	+2 −5	32.53	44.58	+3 +7
20	47.22	40.30	−4 0	42.54	46.49	−3 −9	37.08	48.07	+3 −1	32.40	44.38	+3 +10
21	47.09	40.57	−4 −4	42.37	46.62	−1 −10	36.91	48.03	+4 +4	32.27	44.17	+1 +11
22	46.95	40.83	−4 −8	42.20	46.75	+1 −7	36.74	47.98	+3 +8	32.14	43.96	0 +10
23	46.81	41.09	−2 −9	42.03	46.88	+2 −3	36.57	47.93	+2 +10	32.01	43.74	−1 +8
24	46.67	41.35	−1 −8	41.85	47.00	+3 +1	36.40	47.87	+1 +11	31.88	43.52	−3 +4
25	46.53	41.60	+1 −5	41.68	47.11	+3 +6	36.23	47.81	0 +10	31.76	43.29	−3 0
26	46.39	41.85	+2 −1	41.50	47.22	+3 +9	36.06	47.74	−2 +7	31.64	43.06	−4 −4
27	46.24	42.09	+3 +4	41.33	47.32	+2 +11	35.89	47.67	−3 +3	31.52	42.83	−3 −8
28	46.09	42.33	+3 +8	41.15	47.42	0 +11	35.73	47.59	−4 −2	31.40	42.59	−2 −11
29	45.94	42.57	+2 +10	40.98	47.51	−1 +9	35.56	47.50	−3 −6	31.29	42.35	0 −12
30	45.79	42.80	+1 +11	40.80	47.60	−2 +6	35.39	47.41	−3 −9	31.18	42.10	+1 −10
31	45.64	43.03	0 +10	40.63	47.68	−3 +1	35.23	47.31	−1 −11	31.07	41.85	+3 −7
32				40.45	47.75	−4 −3				30.97	41.59	+4 −3

δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 16′ 30″	7.439	+7.372	+82° 16′ 40″	7.442	+7.375
40	7.442	+7.375	50	7.445	+7.377

$\alpha_{1930.0} = 20^h\ 47^m\ 45^s.97$ $\delta_{1930.0} = +82°\ 16'\ 24''.87$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sa) Octantis 4 G. $5^m.63$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	ℭ Glieder		AR.	Dekl.	ℭ Glieder		AR.	Dekl.	ℭ Glieder		AR.	Dekl.	ℭ Glieder	
	$1^h 41^m$	$-85° 7'$	in $0^s.01$	in $0''.01$	$1^h 41^m$	$-85° 7'$	in $0^s.01$	in $0''.01$	$1^h 41^m$	$-85° 7'$	in $0^s.01$	in $0''.01$	$1^h 41^m$	$-85° 7'$	in $0^s.01$	in $0''.01$
1	24.60	45.96	−5	+ 4	16.49	43.47	+5	+ 6	10.28	36.73	+7	+ 5	6.05	26.01	+4	− 9
2	24.33	45.96	−3	+ 6	16.25	43.29	+7	+ 4	10.09	36.43	+8	+ 2	5.97	25.63	+1	−12
3	24.07	45.96	0	+ 7	16.00	43.11	+8	0	9.91	36.12	+8	− 3	5.90	25.25	−3	−12
4	23.80	45.96	+4	+ 7	15.75	42.93	+7	− 4	9.73	35.81	+6	− 7	5.83	24.87	−6	− 9
5	23.54	45.96	+6	+ 5	15.51	42.74	+5	− 9	9.56	35.50	+3	−11	5.76	24.48	−8	− 5
6	23.28	45.95	+8	+ 2	15.27	42.54	+2	−12	9.39	35.18	−1	−12	5.69	24.10	−8	0
7	23.01	45.93	+8	− 3	15.02	42.34	−2	−13	9.22	34.86	−4	−12	5.63	23.72	−5	+ 5
8	22.75	45.91	+7	− 7	14.78	42.14	−6	−11	9.05	34.54	−7	− 8	5.57	23.33	−2	+ 9
9	22.49	45.88	+4	−11	14.55	41.93	−7	− 7	8.88	34.21	−8	− 4	5.52	22.95	+2	+11
10	22.22	45.84	0	−13	14.31	41.71	−8	− 1	8.72	33.88	−7	+ 2	5.47	22.56	+5	+10
11	21.95	45.79	−4	−12	14.08	41.49	−6	+ 4	8.56	33.54	−4	+ 6	5.42	22.17	+7	+ 7
12	21.69	45.74	−7	− 9	13.85	41.27	−3	+ 8	8.40	33.21	−1	+10	5.38	21.79	+8	+ 3
13	21.42	45.68	−8	− 4	13.62	41.04	+1	+11	8.25	32.87	+3	+11	5.34	21.40	+6	− 1
14	21.16	45.62	−8	+ 2	13.40	40.80	+4	+11	8.10	32.53	+6	+ 9	5.31	21.02	+3	− 5
15	20.90	45.55	−5	+ 7	13.17	40.56	+7	+ 8	7.96	32.19	+7	+ 6	5.28	20.63	0	− 7
16	20.63	45.48	−1	+10	12.95	40.32	+7	+ 5	7.82	31.84	+7	+ 2	5.26	20.24	−3	− 7
17	20.37	45.40	+2	+12	12.73	40.07	+6	+ 1	7.68	31.49	+5	− 2	*)5.24	19.85	−6	− 6
18	20.11	45.31	+5	+11	12.51	39.81	+4	− 3	7.54	31.14	+2	− 5	5.22	19.47	−7	− 3
19	19.84	45.22	+7	+ 8	12.29	39.55	0	− 6	7.41	30.79	−1	− 7	5.21	19.08	−7	0
20	19.58	45.12	+7	+ 3	12.08	39.29	−3	− 6	7.28	30.43	−5	− 6	5.20	18.69	−6	+ 3
21	19.31	45.01	+5	− 1	11.87	39.02	−5	− 6	7.16	30.07	−7	− 5	5.19	18.30	−4	+ 6
22	19.05	44.90	+3	− 4	11.66	38.75	−7	− 4	7.04	29.71	−8	− 2	5.19	17.91	−1	+ 8
23	18.79	44.78	0	− 6	11.45	38.47	−8	− 1	6.93	29.35	−7	+ 1	5.19	17.52	+2	+ 8
24	18.53	44.66	−4	− 6	11.25	38.19	−7	+ 2	6.82	28.98	−6	+ 4	5.20	17.13	+5	+ 7
25	18.28	44.53	−6	− 6	11.05	37.91	−5	+ 5	6.71	28.62	−3	+ 7	5.21	16.75	+7	+ 5
26	18.02	44.40	−7	− 3	10.85	37.62	−2	+ 7	6.60	28.25	0	+ 8	5.23	16.36	+8	+ 1
27	17.76	44.26	−7	0	10.66	37.33	+1	+ 8	6.50	27.88	+3	+ 8	5.25	15.98	+7	− 4
28	17.51	44.11	−6	+ 3	10.47	37.03	+4	+ 8	6.40	27.51	+6	+ 6	5.28	15.60	+5	− 8
29	17.25	43.96	−4	+ 6	10.28	36.73	+7	+ 5	6.31	27.14	+8	+ 3	5.31	15.22	+2	−11
30	17.00	43.80	−1	+ 7					6.22	26.76	+8	− 1	5.34	14.85	−2	−12
31	16.74	43.64	+2	+ 8					6.13	26.38	+7	− 5	5.38	14.47	−5	−11
32	16.49	43.47	+5	+ 6					6.05	26.01	+4	− 9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 7′ 10″	11.754	−11.711	−85° 7′ 30″	11.767	−11.725	−85° 7′ 40″	11.774	−11.731
20	11.761	−11.718	40	11.774	−11.731	50	11.781	−11.738

$\alpha_{1930.0} = 1^h\ 41^m\ 14^s.90$ $\delta_{1930.0} = -85°\ 7'\ 25''.44$

*) Tag der doppelten unteren Kulmination: April 17

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sa) Octantis 4 G. $5^{m}.63$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
		—	in		—	in		—	in		—	in
	$1^h 41^m$	85° 7′	$0.^s01$ $0.''01$	$1^h 41^m$	85° 6′	$0.^s01$ $0.''01$	$1^h 41^m$	85° 6′	$0.^s01$ $0.''01$	$1^h 41^m$	85° 6′	$0.^s01$ $0.''01$
1	$5.^s38$	$14.''47$	−5 −11	$8.^s36$	$63.''73$	−5 + 7	$14.^s20$	$56.''54$	+4 +11	$21.^s76$	$54.''03$	+5 − 2
2	5.42	14.09	−7 − 7	8.51	63.43	−1 +10	14.43	56.37	+7 + 9	22.01	54.04	+2 − 5
3	5.46	13.71	−8 − 2	8.67	63.13	+3 +11	14.66	56.21	+8 + 5	22.26	54.06	−1 − 7
4	5.51	13.34	−6 + 4	8.83	62.84	+6 +10	14.89	56.06	+6 0	22.51	54.08	−5 − 6
5	5.56	12.97	−3 + 8	8.99	62.55	+7 + 7	15.12	55.91	+4 − 4	22.75	54.11	−7 − 4
6	5.62	12.60	0 +10	9.16	62.26	+7 + 2	15.36	55.76	+1 − 6	22.99	54.15	−8 − 1
7	5.68	12.23	+4 +11	9.33	61.98	+6 − 2	15.60	55.62	−3 − 7	23.24	54.19	−7 + 2
8	5.74	11.86	+7 + 8	9.50	61.70	+3 − 6	15.83	55.49	−6 − 6	23.48	54.24	−5 + 5
9	5.80	11.49	+8 + 4	9.68	61.43	−1 − 7	16.07	55.36	−7 − 4	23.72	54.29	−3 + 7
10	5.87	11.13	+7 0	9.86	61.16	−4 − 7	16.31	55.24	−8 0	23.96	54.35	0 + 9
11	5.95	10.77	+5 − 4	10.04	60.89	−6 − 6	16.55	55.12	−7 + 3	24.20	54.42	+3 + 8
12	6.03	10.41	+2 − 7	10.22	60.63	−7 − 3	16.79	55.01	−4 + 6	24.43	54.49	+6 + 6
13	6.11	10.05	−2 − 8	10.41	60.37	−7 + 1	17.04	54.91	−1 + 8	24.67	54.57	+8 + 3
14	6.20	9.69	−5 − 7	10.60	60.12	−6 + 4	17.28	54.81	+2 + 8	24.90	54.65	+8 − 2
15	6.29	9.33	−7 − 5	10.79	59.87	−3 + 6	17.53	54.71	+5 + 7	25.14	54.74	+7 − 6
16	6.38	8.98	−8 − 1	10.99	59.63	0 + 8	17.77	54.62	+7 + 5	25.37	54.83	+4 −10
17	6.48	8.63	−7 + 2	11.19	59.39	+3 + 8	18.02	54.54	+8 + 1	25.60	54.93	+1 −13
18	6.58	8.28	−5 + 5	11.39	59.15	+6 + 6	18.27	54.47	+8 − 4	25.83	55.04	−3 −13
19	6.68	7.94	−2 + 7	11.59	58.92	+8 + 3	18.52	54.40	+6 − 8	26.06	55.15	−6 −11
20	6.79	7.60	+1 + 8	11.79	58.69	+8 − 1	18.77	54.34	+3 −11	26.28	55.27	−8 − 6
21	6.90	7.26	+4 + 7	12.00	58.47	+7 − 5	19.02	54.28	−1 −13	26.50	55.39	−7 − 1
22	7.02	6.92	+6 + 5	12.22	58.25	+5 − 9	19.26	54.23	−4 −12	26.72	55.52	−6 + 4
23	7.14	6.59	+8 + 2	12.43	58.04	+1 −12	19.51	54.18	−7 − 9	26.94	55.66	−2 + 8
24	7.26	6.26	+8 − 2	12.64	57.83	−2 −12	19.76	54.14	−8 − 4	27.16	55.80	+2 +10
25	7.39	5.93	+6 − 6	12.86	57.63	−6 −10	20.01	54.11	−7 + 2	27.37	55.94	+5 +10
26	7.52	5.60	+3 −10	13.08	57.43	−8 − 6	20.26	54.08	−4 + 7	27.58	56.09	+7 + 7
27	7.65	5.28	0 −12	13.29	57.24	−8 − 1	20.51	54.06	−1 +10	27.79	56.24	+8 + 3
28	7.79	4.96	−4 −11	13.51	57.06	−6 + 5	20.76	54.04	+3 +11	28.00	56.40	+6 − 1
29	7.93	4.65	−7 − 8	13.74	56.88	−3 + 9	21.01	54.03	+6 +10	28.20	56.56	+3 − 4
30	8.07	4.34	−8 − 4	13.97	56.71	+1 +11	21.26	54.02	+7 + 6	28.40	56.73	0 − 6
31	8.21	4.03	−7 + 2	14.20	56.54	+4 +11	21.51	54.02	+7 + 2	28.60	56.91	−4 − 6
32	8.36	3.73	−5 + 7				21.76	54.03	+5 − 2	28.80	57.09	−7 − 5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 6′ 50″	11.740	−11.698	−85° 7′ 0″	11.747	−11.705	−85° 7′ 10″	11.754	−11.711
60	11.747	−11.705	10	11.754	−11.711	20	11.761	−11.718

$\alpha_{1930.0} = 1^h\ 41^m\ 14^s.90$ $\delta_{1930.0} = -85°\ 7'\ 25''.44$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sσ) Octantis 4 G. $5^m.63$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	1^h41^m	— 85° 6′	in 0.01s 0.01″	1^h41^m	— 85° 7′	in 0.01s 0.01″	1^h41^m	— 85° 7′	in 0.01s 0.01″	1^h41^m	— 85° 7′	in 0.01s 0.01″
1	28.80	57.09	−7 −5	33.02	4.41	−7 +3	33.14	14.25	+5 +7	29.00	21.94	+7 −3
2	28.99	57.27	−8 −2	33.10	4.70	−5 +7	33.07	14.55	+7 +4	28.80	22.14	+5 −7
3	29.18	57.46	−8 +1	33.17	5.00	−2 +8	32.99	14.84	+8 0	28.60	22.33	+2 −11
4	29.37	57.66	−6 +5	33.24	5.30	+1 +9	32.91	15.14	+7 −5	28.40	22.51	−1 −12
5	29.55	57.86	−4 +7	33.31	5.60	+4 +8	32.82	15.43	+4 −9	28.19	22.69	−4 −11
6	29.73	58.06	−1 +9	33.37	5.90	+6 +6	32.73	15.72	+1 −11	27.98	22.87	−7 −8
7	29.91	58.27	+2 +9	33.43	6.21	+8 +2	32.63	16.01	−2 −12	27.77	23.04	−8 −3
8	30.08	58.48	+5 +7	33.48	6.51	+8 −2	32.53	16.30	−6 −10	27.55	23.20	−7 +2
9	30.25	58.70	+7 +5	33.53	6.82	+6 −6	32.42	16.58	−8 −7	27.33	23.36	−4 +7
10	30.42	58.92	+8 +1	33.57	7.13	+3 −10	32.31	16.86	−8 −2	27.11	23.51	0 +10
11	30.58	59.15	+7 −4	33.60	7.43	0 −12	32.19	17.14	−6 +3	26.88	23.66	+3 +11
12	30.74	59.38	+5 −8	33.63	7.74	−4 −12	32.07	17.41	−3 +8	26.65	23.80	+6 +9
13	30.90	59.61	+2 −11	33.66	8.05	−7 −9	31.94	17.68	+1 +10	26.42	23.94	+8 +5
14	31.05	59.85	−2 −13	33.68	8.36	−8 −5	31.81	17.95	+5 +10	26.19	24.07	+7 +1
15	31.20	60.09	−5 −12	33.69	8.67	−7 0	31.68	18.22	+7 +7	25.96	24.19	+5 −3
16	31.35	60.34	−7 −8	33.70	8.98	−5 +5	31.54	18.48	+8 +3	25.73	24.31	+2 −7
17	31.49	60.59	−8 −4	{33.71 {33.71	9.30 9.61	−1 +8} +3 +10}	31.40	18.74	+7 −1	25.49	24.42	−2 −8
18	31.63	60.84	−6 +2	33.71	9.92	+6 +9	31.26	18.99	+4 −5	25.25	24.53	−5 −7
19	31.76	61.10	−3 +6	33.70	10.24	+8 +6	31.11	19.24	0 −8	25.01	24.63	−7 −5
20	31.89	61.36	0 +9	33.69	10.55	+8 +1	30.95	19.49	−3 −8	24.76	24.72	−8 −1
21	32.02	61.62	+4 +10	33.67	10.86	+6 −3	30.79	19.73	−6 −6	24.52	24.81	−7 +3
22	32.14	61.89	+7 +8	33.65	11.18	+3 −6	30.63	19.97	−8 −3	24.27	24.89	−5 +6
23	32.26	62.16	+8 +4	33.62	11.49	−1 −7	30.47	20.21	−8 +1	24.02	24.97	−2 +8
24	32.37	62.43	+7 0	33.58	11.80	−4 −7	30.30	20.44	−7 +4	23.77	25.04	+1 +9
25	32.48	62.71	+5 −4	33.54	12.11	−7 −5	30.12	20.67	−4 +7	23.52	25.10	+4 +8
26	32.58	62.99	+1 −6	33.50	12.42	−8 −1	29.94	20.89	−1 +9	23.26	25.16	+6 +6
27	32.68	63.27	−2 −7	33.45	12.73	−7 +2	29.76	21.11	+2 +9	23.01	25.21	+8 +2
28	32.77	63.55	−5 −6	33.40	13.04	−6 +6	29.58	21.33	+5 +8	22.75	25.25	+8 −2
29	32.86	63.83	−8 −3	33.34	13.34	−3 +8	29.39	21.54	+7 +5	22.49	25.29	+6 −6
30	32.94	64.12	−8 0	33.28	13.65	0 +9	29.20	21.74	+8 +1	22.23	25.32	+4 −10
31	33.02	64.41	−7 +3	33.21	13.95	+3 +9	29.00	21.94	+7 −3	21.97	25.35	0 −12
32				33.14	14.25	+5 +7				21.71	25.37	−3 −12

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 6′ 50″	11.740	−11.698	−85° 7′ 10″	11.754	−11.711	−85° 7′ 20″	11.761	−11.718
60	11.747	−11.705	20	11.761	−11.718	30	11.767	−11.725

$\alpha_{1930.0} = 1^h\ 41^m\ 14^s.90 \qquad \delta_{1930.0} = -85°\ 7'\ 25''.44$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sb) ξ Mensae $5^m.85$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$5^h\ 6^m$	−82° 34′	in $0^s.01$ $0''.01$	$5^h\ 6^m$	−82° 34′	in $0^s.01$ $0''.01$	$5^h\ 6^m$	−82° 34′	in $0^s.01$ $0''.01$	$5^h\ 6^m$	−82° 34′	in $0^s.01$ $0''.01$
1	$58^s.26$	$2''.96$	−3 −4	$54^s.02$	$10''.01$	0 +9	$48^s.80$	$12''.35$	+1 +10	$42^s.85$	$10''.09$	+4 0
2	58.16	3.25	−3 0	53.85	10.17	+2 +10	48.61	12.35	+3 +9	42.67	9.94	+4 −5
3	58.06	3.53	−2 +4	53.68	10.32	+3 +8	48.41	12.35	+4 +7	42.49	9.78	+2 −9
4	57.96	3.81	−1 +8	53.50	10.46	+4 +5	48.22	12.35	+4 +2	42.31	9.62	0 −11
5	57.85	4.09	+1 +10	53.33	10.60	+5 0	48.02	12.34	+4 −3	42.14	9.45	−1 −11
6	57.74	4.36	+3 +9	53.15	10.74	+4 −5	47.82	12.32	+3 −7	41.96	9.28	−3 −8
7	57.63	4.63	+4 +7	52.97	10.87	+3 −9	47.63	12.30	+2 −10	41.79	9.10	−3 −3
8	57.51	4.90	+5 +3	52.79	10.99	+1 −11	47.43	12.27	0 −11	41.61	8.92	−3 +3
9	57.39	5.16	+5 −2	52.61	11.11	−1 −11	47.23	12.24	−2 −10	41.44	8.74	−2 +8
10	57.27	5.42	+4 −7	52.43	11.22	−3 −9	47.04	12.20	−3 −6	41.27	8.55	−1 +11
11	57.15	5.68	+2 −10	52.24	11.33	−3 −4	46.84	12.16	−4 −1	41.10	8.36	+1 +11
12	57.02	5.93	0 −11	52.06	11.43	−3 +2	46.64	12.11	−3 +5	40.93	8.16	+2 +9
13	56.89	6.17	−2 −10	51.88	11.53	−3 +7	46.45	12.06	−2 +9	40.77	7.96	+3 +5
14	56.76	6.41	−3 −6	51.69	11.62	−2 +10	46.25	12.00	0 +11	40.61	7.75	+3 +1
15	56.63	6.65	−4 −1	51.50	11.71	0 +11	46.06	11.94	+1 +10	40.45	7.54	+2 −4
16	56.49	6.89	−4 +4	51.31	11.79	+1 +10	45.87	11.87	+2 +8	40.29	7.33	+1 −7
17	56.35	7.12	−3 +9	51.12	11.86	+2 +7	45.67	11.80	+2 +4	40.13	7.11	0 −9
18	56.21	7.34	−1 +11	50.93	11.93	+2 +2	45.48	11.72	+2 −1	39.97	6.89	−2 −9
19	56.07	7.56	0 +11	50.74	12.00	+2 −3	45.29	11.63	+1 −5	39.82	6.66	−3 −8
20	55.92	7.78	+1 +9	50.55	12.06	+1 −6	45.09	11.54	0 −8	39.67	6.43	−3 −5
21	55.77	7.99	+2 +5	50.35	12.11	0 −8	44.90	11.45	−1 −9	39.52	6.20	−3 −1
22	55.62	8.20	+2 0	50.16	12.16	−1 −9	44.71	11.35	−2 −9	39.37	5.96	−3 +3
23	55.47	8.41	+2 −4	49.97	12.20	−2 −8	44.52	11.25	−3 −7	39.22	5.72	−2 +6
24	55.32	8.61	+1 −7	49.77	12.24	−3 −6	44.33	11.14	−3 −4	39.08	5.47	0 +9
25	55.16	8.80	−1 −9	49.58	12.27	−3 −2	44.14	11.03	−3 0	38.94	5.22	+1 +10
26	55.00	8.99	−2 −9	49.39	12.30	−3 +2	43.95	10.91	−2 +4	38.80	4.97	+3 +9
27	54.84	9.17	−3 −8	49.19	12.32	−2 +6	43.76	10.79	−1 +7	38.66	4.72	+4 +6
28	54.68	9.35	−3 −5	49.00	12.34	−1 +9	43.58	10.66	0 +9	38.52	4.46	+4 +1
29	54.52	9.52	−3 −1	48.80	12.35	+1 +10	43.40	10.52	+2 +10	38.38	4.20	+4 −3
30	54.35	9.69	−2 +3				43.21	10.38	+3 +8	38.25	3.93	+3 −8
31	54.19	9.85	−1 +7				43.03	10.24	+4 +4	38.12	3.66	+1 −11
32	54.02	10.01	0 +9				42.85	10.09	+4 0			

δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 34′ 0″	7.730	−7.665	−82° 34′ 10″	7.732	−7.668
10	7.732	−7.668	20	7.735	−7.670

$\alpha_{1930.0} = 5^h\ 6^m\ 46^s.45$ $\delta_{1930.0} = -82^\circ\ 34'\ 0''.32$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sb) ξ Mensae $5^m.85$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder in 0.01s	Mai ☾ Glieder in 0.01"	Juni AR.	Juni Dekl.	Juni ☾ Glieder in 0.01s	Juni ☾ Glieder in 0.01"
	$5^h 6^m$	−82° 33′			$5^h 6^m$	−82° 33′		
1	38.12	63.66	+1	−11	35.34	54.07	−4	−1
2	37.99	63.39	−1	−11	35.29	53.73	−3	+4
3	37.86	63.11	−2	−9	35.25	53.40	−2	+8
4	37.74	62.83	−3	−5	35.21	53.06	−1	+11
5	37.62	62.55	−4	+1	35.17	52.72	+1	+11
6	37.50	62.27	−3	+6	35.13	52.38	+2	+9
7	37.39	61.99	−2	+10	35.10	52.04	+3	+5
8	37.28	61.70	0	+11	35.07	51.70	+3	0
9	37.17	61.41	+1	+10	*35.04	51.35	+2	−5
10	37.06	61.11	+2	+7	35.02	51.01	+1	−8
11	36.95	60.81	+3	+2	35.00	50.66	−1	−10
12	36.85	60.51	+2	−2	34.98	50.32	−2	−9
13	36.75	60.21	+1	−6	34.96	49.97	−3	−7
14	36.65	59.91	0	−8	34.95	49.63	−3	−4
15	36.55	59.60	−1	−10	34.94	49.29	−3	0
16	36.46	59.29	−2	−9	34.93	48.95	−2	+4
17	36.37	58.98	−3	−6	34.93	48.60	−1	+7
18	36.28	58.66	−3	−3	34.93	48.26	0	+9
19	36.20	58.34	−3	+1	34.93	47.92	+2	+10
20	36.12	58.02	−2	+5	34.93	47.57	+3	+8
21	36.04	57.70	−1	+8	34.94	47.23	+4	+5
22	35.96	57.37	+1	+10	34.95	46.89	+5	0
23	35.89	57.05	+2	+9	34.97	46.55	+4	−5
24	35.82	56.72	+3	+7	34.99	46.22	+3	−9
25	35.75	56.39	+4	+3	35.01	45.88	+1	−11
26	35.68	56.07	+4	−2	35.03	45.54	−1	−11
27	35.61	55.74	+3	−6	35.05	45.21	−3	−8
28	35.55	55.41	+2	−10	35.08	44.87	−4	−4
29	35.49	55.08	0	−11	35.11	44.54	−4	+2
30	35.44	54.74	−2	−10	35.14	44.21	−3	+7
31	35.39	54.41	−3	−6	35.18	43.88	−2	+10
32	35.34	54.07	−4	−1				

Tag	Juli AR.	Juli Dekl.	Juli ☾ Glieder in 0.01s	Juli ☾ Glieder in 0.01"	August AR.	August Dekl.	August ☾ Glieder in 0.01s	August ☾ Glieder in 0.01"
	$5^h 6^m$	−82° 33′			$5^h 6^m$	−82° 33′		
1	35.18	43.88	−2	+10	37.63	34.90	+2	+4
2	35.22	43.55	0	+11	37.75	34.67	+2	−1
3	35.26	43.23	+1	+10	37.87	34.44	+1	−6
4	35.31	42.90	+2	+6	37.99	34.21	0	−9
5	35.36	42.58	+2	+2	38.11	33.99	−1	−10
6	35.41	42.26	+2	−3	38.23	33.77	−2	−9
7	35.46	41.94	+1	−7	38.36	33.56	−3	−6
8	35.52	41.62	0	−9	38.49	33.35	−4	−3
9	35.58	41.31	−2	−10	38.62	33.15	−3	+1
10	35.64	41.00	−3	−8	38.75	32.95	−2	+5
11	35.70	40.69	−3	−5	38.88	32.75	−1	+8
12	35.77	40.38	−3	−1	39.02	32.56	0	+9
13	35.84	40.08	−3	+3	39.16	32.38	+2	+9
14	35.91	39.78	−2	+6	39.30	32.20	+3	+8
15	35.99	39.48	0	+9	39.44	32.03	+4	+4
16	36.07	39.18	+1	+10	39.58	31.86	+5	−1
17	36.15	38.89	+3	+9	39.72	31.70	+4	−6
18	36.23	38.60	+4	+6	39.87	31.54	+3	−10
19	36.31	38.31	+5	+2	40.01	31.39	+1	−12
20	36.39	38.03	+4	−3	40.16	31.24	−1	−11
21	36.48	37.75	+3	−7	40.31	31.10	−2	−8
22	36.57	37.47	+2	−11	40.46	30.96	−3	−3
23	36.67	37.20	0	−12	40.62	30.83	−3	+3
24	36.77	36.93	−2	−10	40.77	30.71	−2	+8
25	36.87	36.66	−3	−6	40.92	30.59	−1	+11
26	36.97	36.40	−4	−1	41.08	30.48	0	+11
27	37.07	36.14	−3	+5	41.23	30.37	+2	+9
28	37.18	35.88	−2	+9	41.39	30.27	+2	+5
29	37.29	35.63	−1	+11	41.55	30.18	+2	+1
30	37.40	35.38	+1	+11	41.71	30.09	+1	−4
31	37.51	35.14	+2	+8	41.87	30.01	0	−8
32	37.63	34.90	+2	+4	42.03	29.93	−1	−9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 20″	7.718	−7.653	−82° 33′ 40″	7.724	−7.659	−82° 33′ 60″	7.730	−7.665
30	7.721	−7.656	50	7.727	−7.662	70	7.732	−7.668

$\alpha_{1930,0} = 5^h\ 6^m\ 46^s.45$ $\delta_{1930,0} = -82°\ 34'\ 0''.32$

*) Tag der doppelten unteren Kulmination: Juni 9

Obere Kulmination Greenwich

Sb) ξ Mensae $5^m.85$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
		—	in		—	in		—	in		—	in
	$5^h\ 6^m$	$82°\ 33'$	$0^s.01$ $0''.01$	$5^h\ 6^m$	$82°\ 33'$	$0^s.01$ $0''.01$	$5^h\ 6^m$	$82°\ 33'$	$0^s.01$ $0''.01$	$5^h\ 6^m$	$82°\ 33'$	$0^s.01$ $0''.01$
1	42.03	29.93	−1 − 9	46.86	30.50	−4 − 5	50.85	36.62	−2 + 8	52.42	46.02	+3 + 9
2	42.19	29.86	−2 − 9	47.01	30.62	−4 − 2	50.95	36.89	0 + 9	52.42	46.36	+4 + 6
3	42.35	29.79	−3 − 7	47.16	30.74	−3 + 2	51.04	37.17	+2 +10	52.42	46.70	+4 + 2
4	42.51	29.73	−4 − 4	47.31	30.87	−2 + 6	51.13	37.45	+3 + 8	52.41	47.03	+4 − 3
5	42.67	29.68	−4 0	47.46	31.00	−1 + 9	51.22	37.73	+4 + 5	52.40	47.37	+3 − 7
6	42.83	29.63	−3 + 4	47.61	31.14	+1 +10	51.30	38.02	+4 0	52.39	47.71	+2 −10
7	42.99	29.59	−2 + 7	47.76	31.28	+2 + 9	51.38	38.31	+4 − 5	52.38	48.05	0 −11
8	43.15	29.56	0 + 9	47.91	31.43	+3 + 7	51.46	38.61	+3 − 9	{52.36 52.34	48.39 48.73	−2 −10 −3 − 6}
9	43.31	29.53	+1 +10	48.06	31.59	+4 + 3	51.53	38.91	+1 −11	52.32	49.06	−4 − 1
10	43.48	29.51	+3 + 8	48.20	31.75	+4 − 2	51.60	39.21	−1 −11	52.29	49.40	−3 + 5
11	43.64	29.50	+4 + 5	48.34	31.92	+3 − 6	51.67	39.51	−2 − 9	52.26	49.73	−2 + 9
12	43.80	29.49	+4 + 1	48.48	32.10	+2 −10	51.74	39.82	−3 − 4	52.23	50.07	0 +11
13	43.96	29.48	+4 − 4	48.62	32.28	0 −12	51.81	40.13	−3 + 1	52.19	50.40	+1 +11
14	44.13	29.48	+3 − 8	48.75	32.46	−1 −11	51.87	40.44	−2 + 6	52.15	50.73	+2 + 8
15	44.29	29.49	+2 −11	48.89	32.65	−3 − 7	51.93	40.75	−1 +10	52.10	51.06	+3 + 3
16	44.46	29.51	0 −12	49.02	32.84	−3 − 2	51.98	41.07	+1 +11	52.05	51.39	+3 − 2
17	44.62	29.53	−2 −10	49.15	33.04	−3 + 3	52.03	41.39	+2 +10	52.00	51.72	+2 − 6
18	44.78	29.56	−3 − 5	49.28	33.24	−2 + 8	52.08	41.71	+3 + 6	51.95	52.05	0 − 9
19	44.94	29.60	−3 0	49.41	33.45	0 +11	52.13	42.03	+3 + 1	51.89	52.37	−1 −10
20	45.11	29.64	−2 + 6	49.53	33.67	+1 +11	52.17	42.35	+2 − 4	51.83	52.69	−3 − 9
21	45.27	29.69	−1 +10	49.65	33.89	+2 + 9	52.21	42.68	+1 − 7	51.77	53.01	−4 − 6
22	45.43	29.74	0 +11	49.77	34.11	+3 + 4	52.25	43.01	0 −10	51.70	53.33	−4 − 2
23	45.59	29.80	+1 +10	49.89	34.34	+3 − 1	52.28	43.34	−2 −10	51.63	53.65	−3 + 2
24	45.75	29.87	+2 + 7	50.00	34.58	+2 − 5	52.31	43.67	−3 − 8	51.56	53.97	−2 + 6
25	45.91	29.94	+3 + 3	50.12	34.82	0 − 8	52.33	44.00	−4 − 5	51.49	54.28	−1 + 9
26	46.07	30.02	+2 − 2	50.23	35.06	−1 −10	52.35	44.34	−4 − 1	51.41	54.59	+1 +10
27	46.23	30.10	+1 − 6	50.34	35.31	−2 − 9	52.37	44.68	−3 + 3	51.33	54.90	+2 + 9
28	46.39	30.19	0 − 9	50.45	35.56	−3 − 7	52.39	45.01	−2 + 7	51.25	55.20	+3 + 7
29	46.54	30.29	−2 −10	50.56	35.82	−4 − 3	52.40	45.35	0 + 9	51.16	55.50	+4 + 3
30	46.70	30.39	−3 − 8	50.66	36.08	−4 + 1	52.41	45.68	+1 +10	51.07	55.80	+4 − 1
31	46.86	30.50	−4 − 5	50.76	36.35	−3 + 5	52.42	46.02	+3 + 9	50.98	56.10	+4 − 6
32				50.85	36.62	−2 + 8				50.88	56.39	+3 −10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 20″	7.718	−7.653	−82° 33′ 30″	7.721	−7.656	−82° 33′ 50″	7.727	−7.662
30	7.721	−7.656	40	7.724	−7.659	60	7.730	−7.665

$\alpha_{1930.0} = 5^h\ 6^m\ 46^s.45$ $\delta_{1930.0} = -82°\ 34'\ 0''.32$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sc) ζ Octantis $5^m.38$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
		—	in		—	in		—	in		—	in
	$9^h\ 7^m$	85° 22′	0.01ˢ | 0.01″	$9^h\ 7^m$	85° 22′	0.01ˢ | 0.01″	$9^h\ 7^m$	85° 23′	0.01ˢ | 0.01″	$9^h\ 7^m$	85° 23′	0.01ˢ | 0.01″
1	22.81ˢ	47.49″	+2 − 9	24.34ˢ	58.75″	−6 0	21.64ˢ	9.46″	−6 + 7	15.22ˢ	18.66″	+4 + 9
2	22.92	47.82	0 − 8	24.31	59.13	−6 + 5	21.48	9.81	−4 +10	14.97	18.90	+7 + 6
3	23.04	48.16	−3 − 6	24.28	59.51	−5 + 9	21.32	10.15	−1 +12	14.71	19.13	+8 + 1
4	23.15	48.50	−5 − 2	24.24	59.89	−3 +11	21.16	10.49	+2 +11	14.46	19.36	+8 − 4
5	23.26	48.84	−6 + 2	24.20	60.27	0 +12	20.99	10.82	+5 + 8	14.20	19.58	+6 − 8
6	23.36	49.19	−6 + 7	24.15	60.65	+4 +11	20.82	11.15	+8 + 4	13.94	19.80	+3 −10
7	23.46	49.53	−4 +10	{24.10 {24.04	61.03 61.41	+7 + 7} +9 + 0}	20.64	11.48	+9 − 1	13.68	20.01	−1 − 9
8	23.55	49.88	−2 +12	23.98	61.79	+9 − 3	20.46	11.81	+8 − 5	13.42	20.22	−5 − 6
9	23.64	50.23	+2 +12	23.91	62.17	+7 − 7	20.28	12.14	+5 − 9	13.15	20.43	−7 − 2
10	23.72	50.58	+5 +10	23.84	62.55	+4 −10	20.10	12.46	+1 −10	12.88	20.63	−8 + 3
11	23.80	50.93	+8 + 5	23.76	62.92	−1 −10	19.91	12.78	−3 − 8	12.61	20.83	−7 + 7
12	23.88	51.29	+9 0	23.68	63.30	−4 − 7	19.72	13.10	−6 − 5	12.34	21.02	−5 + 9
13	23.95	51.65	+8 − 5	23.59	63.68	−7 − 3	19.52	13.41	−8 0	12.06	21.21	−1 + 9
14	24.01	52.01	+5 − 9	23.50	64.05	−8 + 1	19.32	13.72	−8 + 4	11.79	21.39	+2 + 6
15	24.07	52.37	+2 −11	23.41	64.42	−8 + 5	19.12	14.03	−6 + 7	11.51	21.57	+4 + 3
16	24.13	52.74	−3 −10	23.31	64.79	−6 + 7	18.91	14.33	−4 + 8	11.24	21.74	+6 − 2
17	24.18	53.10	−6 − 6	23.21	65.16	−2 + 8	18.70	14.63	0 + 7	10.96	21.91	+6 − 5
18	24.22	53.47	−8 − 2	23.10	65.53	+1 + 6	18.49	14.93	+3 + 4	10.68	22.07	+5 − 8
19	24.26	53.84	−9 + 2	22.99	65.90	+3 + 3	18.27	15.22	+5 + 1	10.40	22.22	+3 −10
20	24.30	54.21	−7 + 6	22.87	66.27	+5 − 1	18.05	15.51	+6 − 3	10.12	22.37	+1 −10
21	24.33	54.59	−5 + 7	22.75	66.63	+6 − 5	17.83	15.79	+6 − 7	9.84	22.52	−2 − 8
22	24.36	54.97	−2 + 7	22.62	66.99	+5 − 8	17.61	16.07	+4 − 9	9.56	22.66	−4 − 5
23	24.38	55.34	+2 + 5	22.49	67.35	+4 −10	17.38	16.35	+2 −10	9.28	22.80	−6 − 1
24	24.39	55.72	+4 + 2	22.36	67.70	+1 −10	17.15	16.62	0 − 9	8.99	22.93	−6 + 4
25	24.40	56.10	+6 − 2	22.22	68.06	−1 − 8	16.92	16.89	−3 − 7	8.71	23.06	−6 + 8
26	24.41	56.48	+6 − 6	22.08	68.41	−4 − 5	16.68	17.16	−5 − 3	8.42	23.18	−4 +10
27	24.41	56.85	+5 − 8	21.94	68.76	−6 − 2	16.45	17.42	−6 + 1	8.14	23.30	−1 +11
28	24.40	57.23	+3 − 9	21.79	69.11	−6 + 3	16.21	17.68	−6 + 5	7.85	23.41	+3 +10
29	24.39	57.61	+1 − 9	21.64	69.46	−6 + 7	15.97	17.93	−5 + 9	7.56	23.51	+6 + 7
30	24.38	57.99	−2 − 7				15.72	18.18	−3 +11	7.27	23.61	+8 + 3
31	24.36	58.37	−4 − 4				15.47	18.42	0 +11	6.98	23.70	+8 − 3
32	24.34	58.75	−6 0				15.22	18.66	+4 + 9			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 22′ 40″	12.409	−12.369	−85° 23′ 0″	12.424	−12.384	−85° 23′ 20″	12.439	−12.399
50	12.417	−12.376	10	12.432	−12.391	30	12.446	−12.406

$\alpha_{1930.0} = 9^h\ 7^m\ 11^s.74$ $\delta_{1930.0} = -85°\ 23'\ 7''.30$

Sc) ζ Octantis $5^m.38$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$9^h\ 6^m$	$-85°\ 23'$	in 0.01^s	$0.01''$	$9^h\ 6^m$	$-85°\ 23'$	in 0.01^s	$0.01''$	$9^h\ 6^m$	$-85°\ 23'$	in 0.01^s	$0.01''$	$9^h\ 6^m$	$-85°\ 23'$	in 0.01^s	$0.01''$
1	$66^s.98$	$23''.70$	+8	−3	$58^s.17$	24.04	−2	−9	$51^s.11$	$19''.68$	−9	+1	$47^s.01$	$11''.57$	0	+7
2	66.69	23.79	+7	−7	57.90	23.96	−6	−6	50.92	19.47	−8	+5	46.95	11.27	+3	+4
3	66.40	23.88	+4	−10	57.63	23.88	−8	−2	50.73	19.25	−5	+8	46.89	10.97	+5	0
4	66.11	23.96	0	−10	57.37	23.80	−8	+3	50.55	19.03	−2	+8	46.83	10.67	+6	−4
5	65.82	24.03	−4	−8	57.10	23.71	−7	+7	50.37	18.80	+1	+6	46.78	10.37	+5	−8
6	65.53	24.10	−7	−4	56.84	23.61	−4	+8	50.19	18.57	+4	+3	46.74	10.07	+4	−10
7	65.24	24.17	−8	+1	56.58	23.51	−1	+8	50.02	18.34	+6	−1	46.70	9.76	+2	−10
8	64.95	24.23	−8	+5	56.32	23.41	+3	+5	49.85	18.11	+6	−5	46.66	9.46	−1	−9
9	64.66	24.28	−6	+8	56.07	23.30	+5	+2	49.68	17.87	+5	−8	46.63	9.15	−3	−7
10	64.37	24.33	−3	+9	55.81	23.19	+6	−2	49.52	17.63	+3	−10	46.60	8.85	−5	−3
11	64.08	24.37	+1	+7	55.56	23.07	+6	−6	49.36	17.38	+1	−10	46.58	8.54	−6	+1
12	63.79	24.41	+4	+4	55.31	22.94	+5	−9	49.20	17.13	−2	−8	46.56	8.23	−6	+6
13	63.50	24.44	+6	0	55.07	22.81	+3	−10	49.05	16.88	−4	−5	46.55	7.92	−5	+9
14	63.21	24.47	+6	−4	54.83	22.68	0	−9	48.90	16.62	−6	−1	46.54	7.62	−2	+12
15	62.93	24.49	+6	−7	54.59	22.54	−3	−7	48.76	16.36	−6	+3	46.54	7.31	+1	+12
16	62.64	24.51	+4	−9	54.35	22.39	−5	−4	48.62	16.10	−6	+8	46.55	7.00	+4	+10
17	62.35	24.52	+2	−10	54.11	22.24	−6	+1	48.49	15.84	−4	+11	46.56	6.69	+7	+6
18	62.06	24.52	−1	−8	53.88	22.09	−6	+5	48.36	15.57	−1	+12	46.57	6.38	+9	+2
19	61.78	24.52	−3	−6	53.65	21.93	−5	+9	48.24	15.30	+2	+12	46.59	6.07	+9	−3
20	61.49	24.52	−5	−2	53.42	21.77	−3	+11	48.12	15.03	+6	+9	46.61	5.76	+7	−7
21	61.20	24.51	−6	+2	53.20	21.60	0	+12	48.00	14.75	+8	+4	46.63	5.45	+3	−9
22	60.92	24.49	−6	+6	52.98	21.43	+4	+10	47.89	14.47	+9	−1	46.66	5.15	−1	−9
23	60.64	24.47	−4	+10	52.76	21.25	+7	+7	47.78	14.19	+8	−6	46.70	4.84	−5	−6
24	60.36	24.44	−2	+12	52.54	21.07	+8	+2	47.68	13.90	+5	−9	46.74	4.54	−7	−2
25	60.09	24.41	+1	+11	52.33	20.88	+8	−3	47.58	13.62	+1	−10	46.79	4.23	−8	+2
26	59.81	24.37	+5	+9	52.12	20.69	+7	−8	47.48	13.33	−3	−8	46.84	3.93	−7	+6
27	59.53	24.33	+7	+5	51.91	20.50	+3	−10	47.39	13.04	−6	−5	46.90	3.63	−5	+8
28	59.26	24.28	+8	0	51.70	20.30	−1	−10	47.30	12.75	−8	−1	46.96	3.33	−2	+8
29	58.98	24.23	+8	−5	51.50	20.10	−5	−8	47.22	12.46	−8	+4	47.03	3.03	+2	+5
30	58.71	24.17	+5	−9	51.30	19.89	−7	−4	47.14	12.16	−7	+7	47.10	2.73	+4	+2
31	58.44	24.11	+2	−10	51.11	19.68	−9	+1	47.07	11.87	−4	+8	47.17	2.44	+6	−3
32	58.17	24.04	−2	−9					47.01	11.57	0	+7	47.25	2.14	+6	−7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 23′ 0″	12.424	−12.384	−85° 23′ 10″	12.432	−12.391	−85° 23′ 20″	12.439	−12.399
10	12.432	−12.391	20	12.439	−12.399	30	12.446	−12.406

$\alpha_{1930.0} = 9^h\ 7^m\ 11^s.74$ $\delta_{1930.0} = -85°\ 23'\ 7''.30$

*) Tag der doppelten unteren Kulmination: Aug. 8

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sc) ζ Octantis $5^m.38$

Tag	September AR.	Dekl.	☾ Glieder		Oktober AR.	Dekl.	☾ Glieder		November AR.	Dekl.	☾ Glieder		Dezember AR.	Dekl.	☾ Glieder	
	$9^h\,6^m$	−85° 22′	in $0^s.01$	in 0″.01	$9^h\,6^m$	−85° 22′	in $0^s.01$	in 0″.01	$9^h\,6^m$	−85° 22′	in $0^s.01$	in 0″.01	$9^h\,7^m$	−85° 22′	in $0^s.01$	in 0″.01
1	47.25	62.14	+6	−7	51.64	54.67	+1	−11	59.19	51.49	−7	0	6.96	54.22	−4	+10
2	47.34	61.85	+5	−10	51.85	54.48	−2	−9	59.45	51.49	−7	+4	7.20	54.41	−1	+11
3	47.43	61.56	+3	−11	52.06	54.30	−4	−6	59.72	51.49	−5	+8	7.43	54.60	+2	+11
4	47.52	61.27	0	−10	52.27	54.12	−6	−2	59.99	51.50	−3	+11	7.66	54.80	+5	+8
5	47.61	60.99	−3	−8	52.49	53.95	−7	+2	60.25	51.52	0	+11	7.89	55.00	+8	+4
6	47.71	60.70	−5	−5	52.71	53.79	−6	+6	60.52	51.54	+3	+10	8.11	55.21	+9	−1
7	47.82	60.42	−6	0	52.93	53.63	−5	+9	60.79	51.57	+6	+6	8.33	55.43	+7	−6
8	47.93	60.14	−7	+4	53.15	53.47	−2	+11	61.05	51.61	+8	+2	8.55	55.65	+5	−9
9	48.05	59.86	−6	+8	53.38	53.32	+1	+11	61.32	51.65	+8	−3	8.77	55.88	+1	−10
10	48.17	59.59	−4	+11	53.61	53.17	+5	+9	61.59	51.70	+7	−7	8.98	56.11	−3	−8
11	48.29	59.32	0	+12	53.84	53.03	+7	+5	61.85	51.75	+4	−9	9.19	56.35	−6	−5
12	48.42	59.06	+3	+11	54.08	52.90	+9	0	62.12	51.81	0	−9	9.40	56.59	−8	0
13	48.55	58.79	+6	+8	54.32	52.77	+8	−4	62.39	51.88	−4	−7	9.60	56.84	−8	+5
14	48.69	58.53	+8	+3	54.56	52.65	+6	−8	62.65	51.96	−7	−3	9.80	57.09	−6	+8
15	48.83	58.27	+9	−1	54.80	52.53	+2	−9	62.92	52.04	−8	+2	10.00	57.35	−3	+9
16	48.98	58.01	+8	−6	55.05	52.42	−2	−8	63.18	52.13	−7	+6	10.19	57.61	0	+8
17	49.13	57.76	+5	−8	55.30	52.32	−5	−5	63.44	52.23	−5	+9	10.38	57.88	+4	+5
18	49.29	57.51	+1	−9	55.55	52.22	−7	0	63.70	52.33	−2	+9	10.57	58.15	+6	+1
19	49.45	57.27	−3	−7	55.80	52.13	−8	+4	63.96	52.44	+2	+7	10.75	58.43	+6	−4
20	49.61	57.03	−6	−3	56.06	52.04	−6	+8	64.22	52.56	+5	+3	10.93	58.71	+6	−8
21	49.78	56.80	−8	+1	56.31	51.96	−4	+9	64.47	52.68	+6	−1	11.10	59.00	+4	−11
22	49.95	56.57	−8	+6	56.57	51.89	0	+8	64.73	52.81	+6	−6	11.27	59.29	+1	−11
23	50.12	56.34	−6	+8	56.82	51.82	+3	+5	64.98	52.94	+5	−9	11.44	59.59	−2	−9
24	50.30	56.12	−3	+9	57.08	51.76	+5	+1	65.24	53.08	+3	−11	11.60	59.89	−4	−7
25	50.48	55.90	+1	+7	57.34	51.70	+6	−3	65.49	53.22	0	−11	11.76	60.19	−6	−3
26	50.66	55.68	+4	+4	57.60	51.65	+6	−7	65.74	53.37	−3	−8	11.91	60.50	−7	+2
27	50.85	55.47	+5	−1	57.86	51.61	+4	−10	65.99	53.53	−5	−5	12.06	60.81	−6	+6
28	51.04	55.26	+6	−5	58.12	51.57	+2	−11	66.24	53.69	−6	−1	12.20	61.12	−5	+9
29	51.24	55.06	+5	−9	58.39	51.54	−1	−10	66.48	53.86	−7	+3	12.34	61.44	−2	+11
30	51.44	54.86	+3	−11	58.65	51.52	−3	−8	66.72	54.04	−6	+7	12.48	61.76	+1	+11
31	51.64	54.67	+1	−11	58.92	51.50	−5	−4	66.96	54.22	−4	+10	12.61	62.09	+4	+9
32					59.19	51.49	−7	0					12.74	62.42	+7	+6

δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 22′ 50″	12.417	−12.376	−85° 23′ 0″	12.424	−12.384
60	12.424	−12.384	10	12.432	−12.391

$\alpha_{1930.0} = 9^h\ 7^m\ 11^s.74$ $\delta_{1930.0} = -85°\ 23'\ 7''.30$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sd) ι Octantis $5^m.38$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$12^h\,47^m$	$-84°\,44'$	in $0^s.01$ $0''.01$	$12^h\,47^m$	$-84°\,44'$	in $0^s.01$ $0''.01$	$12^h\,47^m$	$-84°\,44'$	in $0^s.01$ $0''.01$	$12^h\,47^m$	$-84°\,44'$	in $0^s.01$ $0''.01$
1	19.29	14.50	+7 − 4	26.77	20.00	−3 − 6	31.69	28.78	−5 − 5	34.15	40.56	−7 + 9
2	19.55	14.60	+5 − 6	26.98	20.26	−6 − 3	31.82	29.14	−8 − 1	34.17	40.95	−4 +11
3	19.81	14.70	+2 − 7	27.19	20.53	−8 + 1	31.95	29.50	−9 + 3	34.19	41.34	0 +12
4	20.06	14.80	−1 − 7	27.40	20.80	−9 + 5	32.07	29.86	−8 + 7	{34.21 / 34.22	41.73 / 42.12	+4 + 9 / +7 + 6}
5	20.32	14.91	−5 − 5	27.61	21.07	−8 + 9	32.19	30.23	−6 +11	34.23	42.50	+8 + 1
6	20.58	15.02	−7 − 1	27.81	21.35	−5 +12	32.31	30.59	−3 +12	34.24	42.89	+7 − 4
7	20.83	15.14	−9 + 3	28.01	21.63	−1 +13	32.42	30.96	+1 +11	34.24	43.27	+5 − 8
8	21.09	15.27	−9 + 7	28.21	21.92	+3 +11	32.53	31.33	+5 + 9	34.24	43.66	+1 −10
9	21.34	15.40	−7 +11	28.40	22.21	+6 + 7	32.64	31.70	+7 + 4	34.23	44.04	−2 − 9
10	21.59	15.54	−4 +12	28.59	22.51	+8 + 2	32.74	32.07	+8 − 1	34.22	44.42	−6 − 7
11	21.84	15.68	0 +12	28.78	22.81	+8 − 3	32.84	32.45	+7 − 6	34.21	44.80	−7 − 3
12	22.09	15.83	+4 + 9	28.97	23.11	+6 − 8	32.94	32.83	+4 − 9	34.19	45.18	−8 + 1
13	22.34	15.98	+7 + 4	29.15	23.42	+2 −10	33.03	33.21	0 −10	34.17	45.56	−6 + 5
14	22.59	16.14	+8 − 1	29.33	23.73	−1 −10	33.12	33.59	−4 − 9	34.15	45.93	−3 + 7
15	22.83	16.31	+7 − 6	29.51	24.05	−5 − 8	33.21	33.97	−6 − 6	34.12	46.31	+1 + 7
16	23.07	16.49	+5 −10	29.69	24.37	−7 − 5	33.29	34.35	−7 − 2	34.09	46.68	+4 + 5
17	23.32	16.67	+1 −11	29.86	24.69	−7 − 1	33.37	34.74	−7 + 2	34.06	47.06	+6 + 3
18	23.56	16.85	−3 −10	30.03	25.01	−6 + 3	33.45	35.12	−4 + 5	34.02	47.43	+8 − 1
19	23.80	17.04	−6 − 8	30.20	25.34	−3 + 5	33.52	35.50	−1 + 6	33.98	47.80	+8 − 4
20	24.04	17.24	−7 − 3	30.36	25.67	0 + 6	33.59	35.89	+2 + 6	33.94	48.17	+6 − 6
21	24.28	17.44	−7 + 1	30.52	26.00	+3 + 5	33.66	36.28	+5 + 4	33.89	48.54	+4 − 8
22	24.52	17.65	−5 + 4	30.68	26.34	+6 + 3	33.72	36.67	+7 + 1	33.84	48.90	+1 − 8
23	24.75	17.86	−2 + 6	30.83	26.68	+7 0	33.78	37.06	+8 − 2	33.79	49.26	−2 − 7
24	24.98	18.08	+1 + 6	30.98	27.02	+8 − 3	33.83	37.45	+7 − 5	33.73	49.62	−5 − 4
25	25.21	18.30	+4 + 5	31.13	27.37	+7 − 6	33.88	37.83	+6 − 7	33.67	49.98	−8 0
26	25.44	18.53	+7 + 2	31.28	27.72	+4 − 7	33.93	38.22	+3 − 8	33.61	50.34	−8 + 4
27	25.67	18.76	+8 − 1	31.42	28.07	+1 − 8	33.98	38.61	0 − 8	33.54	50.69	−8 + 8
28	25.89	19.00	+7 − 4	31.56	28.42	−2 − 7	34.02	39.00	−4 − 6	33.47	51.04	−5 +11
29	26.11	19.24	+6 − 6	31.69	28.78	−5 − 5	34.06	39.39	−6 − 3	33.40	51.39	−2 +12
30	26.33	19.49	+3 − 7				34.09	39.78	−8 + 1	33.32	51.74	+2 +10
31	26.55	19.74	0 − 8				34.12	40.17	−8 + 5	33.24	52.08	+6 + 7
32	26.77	20.00	−3 − 6				34.15	40.56	−7 + 9			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 44′ 10″	10.900	−10.854	−84° 44′ 30″	10.911	−10.866	−84° 44′ 50″	10.923	−10.877
20	10.906	−10.860	40	10.917	−10.871	60	10.929	−10.883

$\alpha_{1930.0} = 12^h\ 47^m\ 25^s.86 \qquad \delta_{1930.0} = -84°\ 44'\ 37''.28$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sd) ι Octantis $5^{m}.38$

Tag	Mai AR.	Mai Dekl.	Mai ☾Glieder in		Juni AR.	Juni Dekl.	Juni ☾Glieder in	
	$12^{h}\,47^{m}$	$-84^{\circ}\,44'$	0.01^{s}	$0.01''$	$12^{h}\,47^{m}$	$-84^{\circ}\,45'$	0.01^{s}	$0.01''$
1	33.24	52.08	+6	+ 7	29.32	1.09	+5	−10
2	33.16	52.42	+8	+ 2	29.15	1.32	+1	−11
3	33.07	52.76	+8	− 3	28.98	1.54	−3	−10
4	32.98	53.10	+6	− 7	28.81	1.76	−6	− 7
5	32.89	53.43	+3	−10	28.63	1.97	−7	− 2
6	32.79	53.76	−1	−10	28.46	2.18	−7	+ 2
7	32.69	54.09	−4	− 8	28.28	2.38	−5	+ 5
8	32.59	54.41	−7	− 4	28.10	2.58	−2	+ 7
9	32.49	54.73	−8	0	27.92	2.77	+1	+ 7
10	32.39	55.05	−7	+ 4	27.74	2.96	+5	+ 5
11	32.28	55.36	−4	+ 6	27.55	3.14	+7	+ 2
12	32.17	55.67	−1	+ 7	27.36	3.32	+8	− 1
13	32.05	55.98	+3	+ 6	27.17	3.49	+7	− 4
14	31.93	56.28	+6	+ 4	26.98	3.66	+6	− 7
15	31.81	56.58	+7	+ 1	26.79	3.82	+3	− 8
16	31.68	56.88	+8	− 2	26.60	3.98	0	− 8
17	31.55	57.17	+7	− 5	26.40	4.13	−3	− 6
18	31.42	57.46	+5	− 7	26.20	4.28	−6	− 3
19	31.29	57.75	+2	− 8	26.00	4.42	−8	+ 1
20	31.15	58.03	−1	− 7	25.80	4.55	−9	+ 5
21	31.01	58.31	−5	− 5	25.60	4.68	−8	+ 9
22	30.87	58.58	−7	− 2	25.40	4.81	−5	+12
23	30.73	58.85	−8	+ 2	25.19	4.93	−1	+12
24	30.58	59.12	−8	+ 7	24.99	5.04	+3	+10
25	30.43	59.38	−7	+10	24.78	5.15	+6	+ 7
26	30.28	59.64	−3	+11	24.58	5.26	+8	+ 1
27	30.13	59.89	0	+11	24.37	5.36	+8	− 4
28	29.97	60.14	+4	+ 8	24.16	5.45	+6	− 8
29	29.81	60.38	+7	+ 4	23.95	5.54	+3	−11
30	29.65	60.62	+8	− 1	23.74	5.62	−1	−11
31	29.49	60.86	+7	− 6	23.53	5.70	−5	− 9
32	29.32	61.09	+5	−10				

Tag	Juli AR.	Juli Dekl.	Juli ☾Glieder in		August AR.	August Dekl.	August ☾Glieder in	
	$12^{h}\,47^{m}$	$-84^{\circ}\,45'$	0.01^{s}	$0.01''$	$12^{h}\,47^{m}$	$-84^{\circ}\,44'$	0.01^{s}	$0.01''$
1	23.53	5.70	−5	− 9	16.95	65.23	−4	+ 5
2	23.31	5.77	−7	− 5	16.75	65.12	−1	+ 6
3	23.10	5.83	−7	0	16.55	65.01	+3	+ 6
4	22.89	5.89	−6	+ 4	16.35	64.90	+6	+ 4
5	22.68	5.95	−3	+ 6	16.16	64.78	+7	0
6	22.46	6.00	0	+ 7	15.96	64.65	+8	− 3
7	22.25	6.04	+4	+ 5	15.77	64.52	+7	− 6
8	22.03	6.07	+6	+ 3	15.58	64.39	+5	− 8
9	21.82	6.10	+8	0	15.39	64.25	+2	− 9
10	21.60	6.13	+8	− 3	15.20	64.10	−1	− 8
11	21.39	6.15	+6	− 6	15.02	63.95	−4	− 6
12	21.17	6.16	+4	− 8	14.84	63.79	−7	− 2
13	20.96	6.17	+1	− 8	14.66	63.63	−8	+ 2
14	20.74	6.17	−2	− 7	14.48	63.46	−9	+ 6
15	20.53	6.17	−5	− 4	14.30	63.29	−7	+10
16	20.31	6.16	−8	− 1	14.12	63.12	−4	+12
17	20.10	6.14	−9	+ 4	13.95	62.94	−1	+13
18	19.88	6.12	−8	+ 8	13.78	62.76	+3	+11
19	19.67	6.09	−6	+11	13.61	62.57	+6	+ 7
20	19.46	6.06	−3	+13	13.45	62.38	+8	+ 2
21	19.24	6.02	+1	+12	13.29	62.18	+7	− 3
22	19.03	5.98	+5	+ 9	13.13	61.98	+5	− 8
23	18.82	5.93	+7	+ 4	12.97	61.77	+1	−10
24	18.61	5.87	+8	− 1	12.82	61.56	−2	− 9
25	18.40	5.81	+7	− 6	12.67	61.35	−6	− 7
26	18.19	5.74	+4	−10	12.52	61.13	−7	− 3
27	17.98	5.67	0	−11	12.37	60.91	−7	+ 1
28	17.78	5.59	−4	− 9	12.23	60.68	−5	+ 4
29	17.57	5.51	−6	− 6	12.09	60.45	−2	+ 6
30	17.36	5.42	−7	− 2	11.95	60.22	+1	+ 6
31	17.15	5.33	−7	+ 2	11.82	59.98	+5	+ 4
32	16.95	5.23	−4	+ 5	11.69	59.74	+7	+ 1

δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 44′ 50″	10.923	−10.877	−84° 45′ 0″	10.929	−10.883
60	10.929	−10.883	10	10.935	−10.889

$\alpha_{1930.0} = 12^{h}\ 47^{m}\ 25^{s}.86$ $\delta_{1930.0} = -84^{\circ}\ 44'\ 37''.28$

Obere Kulmination Greenwich

Sd) ι Octantis $5^m.38$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$12^h\,47^m$	$-84°\,44'$	in 0.01^s $0.01''$	$12^h\,47^m$	$-84°\,44'$	in 0.01^s $0.01''$	$12^h\,47^m$	$-84°\,44'$	in 0.01^s $0.01''$	$12^h\,47^m$	$-84°\,44'$	in 0.01^s $0.01''$
1	11.69	59.74	+7 + 1	9.58	51.29	+7 − 7	11.53	42.35	−3 − 7	17.07	36.71	−8 + 3
2	11.56	59.49	+8 − 2	9.58	50.99	+5 − 9	11.66	42.10	−6 − 4	17.30	36.61	−8 + 7
3	11.44	59.24	+8 − 5	*)9.58	50.69	+2 − 9	11.80	41.85	−8 0	17.53	36.51	−6 +10
4	11.32	58.99	+6 − 8	9.58	50.38	−1 − 8	11.94	41.61	−8 + 5	17.77	36.42	−2 +12
5	11.21	58.73	+4 − 9	9.59	50.08	−5 − 6	12.09	41.37	−7 + 8	18.01	36.33	+1 +11
6	11.10	58.47	0 − 9	9.60	49.77	−7 − 2	12.24	41.13	−4 +11	18.25	36.25	+5 + 8
7	10.99	58.21	−3 − 7	9.62	49.47	−8 + 2	12.39	40.90	−1 +12	18.49	36.18	+7 + 4
8	10.89	57.95	−6 − 4	9.64	49.16	−8 + 6	12.55	40.67	+3 +10	18.74	36.11	+8 − 1
9	10.79	57.68	−8 0	9.67	48.85	−6 +10	12.71	40.44	+6 + 7	18.98	36.05	+7 − 6
10	10.69	57.41	−8 + 4	9.70	48.55	−3 +12	12.88	40.22	+8 + 2	19.23	35.99	+4 − 9
11	10.60	57.14	−8 + 8	9.74	48.25	0 +12	13.05	40.00	+8 − 3	19.48	35.94	0 −10
12	10.51	56.86	−5 +11	9.78	47.95	+4 + 9	13.22	39.79	+6 − 7	19.72	35.89	−4 − 9
13	10.42	56.59	−2 +12	9.83	47.65	+7 + 5	13.39	39.58	+2 − 9	19.97	35.85	−7 − 5
14	10.34	56.31	+2 +11	9.88	47.36	+8 0	13.57	39.38	−2 − 9	20.22	35.82	−8 − 1
15	10.26	56.03	+5 + 8	9.93	47.06	+7 − 4	13.75	39.18	−5 − 7	20.47	35.79	−7 + 3
16	10.18	55.74	+7 + 4	9.99	46.77	+4 − 8	13.94	38.99	−8 − 3	20.73	35.77	−5 + 6
17	10.11	55.45	+8 − 1	10.05	46.48	0 − 9	14.13	38.80	−8 + 1	20.99	35.75	−1 + 8
18	10.04	55.16	+6 − 6	10.12	46.18	−3 − 8	14.32	38.62	−7 + 5	21.25	35.74	+2 + 7
19	9.98	54.87	+3 − 9	10.19	45.89	−6 − 5	14.52	38.44	−4 + 7	21.50	35.74	+6 + 4
20	9.92	54.58	−1 − 9	10.27	45.60	−8 − 1	14.72	38.27	0 + 8	21.76	35.75	+8 + 1
21	9.87	54.28	−5 − 8	10.35	45.32	−8 + 3	14.92	38.10	+4 + 6	22.02	35.76	+8 − 3
22	9.82	53.99	−7 − 4	10.44	45.04	−5 + 6	15.12	37.94	+7 + 3	22.28	35.78	+7 − 6
23	9.78	53.69	−8 0	10.53	44.76	−2 + 7	15.32	37.78	+8 − 1	22.54	35.80	+5 − 8
24	9.74	53.40	−7 + 3	10.62	44.48	+2 + 7	15.53	37.63	+8 − 5	22.80	35.83	+2 − 9
25	9.70	53.10	−4 + 6	10.72	44.20	+5 + 4	15.74	37.48	+7 − 7	23.06	35.87	−1 − 8
26	9.67	52.80	0 + 6	10.82	43.93	+8 + 1	15.96	37.34	+4 − 9	23.32	35.92	−4 − 6
27	9.64	52.50	+3 + 5	10.93	43.66	+8 − 3	16.18	37.20	+1 − 9	23.58	35.97	−7 − 2
28	9.62	52.20	+6 + 3	11.04	43.39	+8 − 6	16.40	37.07	−2 − 8	23.84	36.03	−8 + 2
29	9.60	51.90	+8 − 1	11.16	43.13	+6 − 8	16.62	36.94	−5 − 5	24.10	36.09	−8 + 6
30	9.59	51.59	+9 − 4	11.28	42.87	+3 − 9	16.84	36.82	−8 − 1	24.36	36.16	−7 +10
31	9.58	51.29	+7 − 7	11.40	42.61	0 − 9	17.07	36.71	−8 + 3	24.62	36.23	−4 +12
32				11.53	42.35	−3 − 7				24.88	36.31	0 +12

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 44′ 30″	10.911	−10.866	−84° 44′ 40″	10.917	−10.871	−84° 44′ 50″	10.923	−10.877
40	10.917	−10.871	50	10.923	−10.877	60	10.929	−10.883

$\alpha_{1930.0} = 12^h\,47^m\,25^s.86 \qquad \delta_{1930.0} = -\,84°\,44'\,37''.28$

*) Tag der doppelten unteren Kulmination: Okt. 3

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Se) Octantis 20 G. 6^m.52

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder in		Februar AR.	Februar Dekl.	Februar ☾ Glieder in	
	14^h 51^m	—87° 51′	0.01^s	0.01″	14^h 51^m	—87° 51′	0.01^s	0.01″
1	23.47	48.59	+18	0	43.58	48.09	− 2	− 8
2	24.07	48.48	+15	− 3	44.25	48.16	−11	− 7
3	24.68	48.38	+10	− 6	44.92	48.24	−18	− 5
4	25.29	48.29	+ 2	− 7	45.59	48.33	−23	− 1
5	25.90	48.21	− 6	− 8	46.25	48.43	−23	+ 4
6	26.52	48.13	−15	− 6	46.92	48.53	−19	+ 8
7	27.14	48.05	−21	− 3	47.58	48.63	−12	+11
8	27.77	47.98	−24	+ 1	48.25	48.74	− 2	+12
9	28.40	47.92	−22	+ 6	48.91	48.86	+ 8	+11
10	29.04	47.86	−17	+10	49.57	48.98	+15	+ 7
11	29.68	47.81	− 8	+12	50.23	49.11	+19	+ 1
12	30.32	47.77	+ 3	+12	50.89	49.24	+18	− 4
13	30.96	47.73	+12	+ 9	51.54	49.38	+13	− 8
14	31.61	47.70	+18	+ 4	52.19	49.52	+ 4	−11
15	32.26	47.67	+20	− 2	52.84	49.67	− 4	−11
16	32.91	47.65	+17	− 7	53.49	49.82	−11	− 9
17	33.57	47.63	+11	−10	54.14	49.98	−14	− 5
18	34.23	47.62	+ 2	−12	54.78	50.14	−14	− 1
19	34.89	47.62	− 6	−11	55.42	50.31	−10	+ 3
20	35.55	47.62	−12	− 8	56.05	50.48	− 4	+ 6
21	36.22	47.63	−15	− 4	56.68	50.66	+ 4	+ 7
22	36.89	47.64	−13	+ 1	57.31	50.84	+11	+ 7
23	37.56	47.66	− 8	+ 5	57.93	51.03	+16	+ 5
24	38.22	47.69	− 1	+ 7	58.55	51.22	+18	+ 2
25	38.89	47.72	+ 6	+ 7	59.17	51.42	+18	− 1
26	39.56	47.75	+12	+ 7	59.78	51.62	+15	− 4
27	40.23	47.79	+17	+ 4	60.39	51.82	+ 9	− 7
28	40.90	47.84	+18	+ 1	61.00	52.03	+ 1	− 8
29	41.57	47.89	+17	− 2	61.60	52.24	− 7	− 8
30	42.24	47.95	+13	− 5				
31	42.91	48.02	+ 6	− 7				
32	43.58	48.09	− 2	− 8				

Tag	März AR.	März Dekl.	März ☾ Glieder in		April AR.	April Dekl.	April ☾ Glieder in	
	14^h 52^m	—87° 51′	0.01^s	0.01″	14^h 52^m	—87° 52′	0.01^s	0.01″
1	1.60	52.24	− 7	− 8	17.45	0.75	−21	+ 4
2	2.20	52.46	−15	− 6	17.85	1.07	−16	+ 8
3	2.79	52.68	−21	− 3	18.24	1.40	− 8	+11
4	3.38	52.91	−23	+ 2	18.63	1.73	+ 1	+12
5	3.96	53.14	−21	+ 6	19.01	2.06	+10	+10
6	4.54	53.37	−15	+10	19.38	2.39	+16	+ 6
7	5.11	53.61	− 6	+12	19.74	2.73	+18	0
8	5.68	53.85	+ 4	+12	20.10	3.06	+16	− 5
9	6.24	54.10	+13	+ 9	20.45	3.40	+10	− 9
10	6.79	54.35	+18	+ 4	20.79	3.74	+ 1	−11
11	7.34	54.61	+18	− 2	21.13	4.08	− 7	−10
12	7.89	54.87	+14	− 7	21.45	4.43	−14	− 7
13	8.43	55.13	+ 7	−10	21.77	4.77	−17	− 3
14	8.96	55.40	− 2	−11	22.08	5.12	−15	+ 1
15	9.49	55.67	−10	−10	22.38	5.47	−10	+ 5
16	10.01	55.94	−15	− 6	22.67	5.82	− 3	+ 7
17	10.52	56.22	−16	− 2	22.95	6.17	+ 5	+ 8
18	11.03	56.50	−13	+ 2	23.22	6.52	+12	+ 7
19	11.53	56.78	− 7	+ 5	23.49	6.87	+17	+ 5
20	12.03	57.07	+ 1	+ 7	23.75	7.23	+19	+ 1
21	12.52	57.36	+ 8	+ 7	24.00	7.58	+18	− 2
22	13.01	57.66	+14	+ 6	24.24	7.94	+14	− 5
23	13.49	57.96	+18	+ 3	24.47	8.30	+ 7	− 7
24	13.96	58.26	+19	0	24.69	8.66	− 1	− 8
25	14.42	58.56	+17	− 3	24.90	9.02	− 9	− 8
26	14.87	58.86	+12	− 6	25.11	9.38	−16	− 6
27	15.32	59.17	+ 4	− 8	25.30	9.74	−21	− 2
28	15.76	59.48	− 4	− 8	25.48	10.10	−22	+ 2
29	16.19	59.79	−12	− 7	25.66	10.46	−19	+ 7
30	16.62	60.11	−18	− 4	25.83	10.82	−12	+10
31	17.04	60.43	−22	0	25.99	11.18	− 2	+11
32	17.45	60.75	−21	+ 4				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
—87° 51′ 40″	26.794	—26.775	—87° 51′ 50″	26.829	—26.810	—87° 52′ 10″	26.899	—26.880
50	26.829	—26.810	60	26.864	—26.845	20	26.934	—26.915

$\alpha_{1930.0} = 14^h\ 51^m\ 57^s.88$ $\qquad \delta_{1930.0} = -87°\ 52'\ 3''.98$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Se) Octantis 20 G. $6^{m}.52$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$14^{h}\ 52^{m}$	— 87° 52′	in $0^{s}.01$ $0''.01$	$14^{h}\ 52^{m}$	— 87° 52′	in $0^{s}.01$ $0''.01$	$14^{h}\ 52^{m}$	— 87° 52′	in $0^{s}.01$ $0''.01$	$14^{h}\ 51^{m}$	— 87° 52′	in $0^{s}.01$ $0''.01$
1	$25^{s}.99$	$11''.18$	− 2 +11	$26^{s}.19$	$22''.42$	+17 − 6	$18^{s}.20$	$30''.88$	− 4 −11	$63^{s}.81$	$35''.55$	−12 + 2
2	26.14	11.54	+ 7 +10	26.04	22.75	+10 −10	17.81	31.10	−11 − 9	63.28	35.61	− 6 + 5
3	26.28	11.90	+15 + 7	25.89	23.07	+ 1 −11	17.42	31.32	−15 − 5	62.75	35.67	+ 2 + 7
4	26.41	12.27	+19 + 2	25.73	23.39	− 8 −10	17.02	31.54	−15 0	62.22	35.72	+ 9 + 7
5	{26.53 {26.64	12.63 12.99	+19 − 3} +14 − 8}	25.56	23.71	−14 − 7	16.62	31.75	−11 + 4	61.69	35.77	+16 + 5
6	26.74	13.35	+ 6 −11	25.38	24.03	−16 − 3	16.21	31.96	− 4 + 7	61.16	35.81	+19 + 3
7	26.83	13.71	− 4 −11	25.19	24.34	−14 + 2	15.80	32.16	+ 4 + 8	60.63	35.84	+20 − 1
8	26.92	14.07	−12 − 9	24.99	24.65	− 9 + 6	15.38	32.36	+11 + 7	60.09	35.87	+17 − 4
9	27.00	14.43	−16 − 5	24.78	24.96	− 1 + 8	14.95	32.55	+17 + 5	59.55	35.89	+11 − 7
10	27.07	14.79	−17 0	24.56	25.27	+ 7 + 8	14.52	32.74	+19 + 2	59.01	35.91	+ 4 − 8
11	27.13	15.15	−13 + 4	24.34	25.57	+13 + 7	14.08	32.92	+18 − 2	58.48	35.92	− 5 − 8
12	27.17	15.51	− 6 + 7	24.11	25.87	+17 + 4	13.63	33.10	+14 − 5	57.94	35.93	−13 − 7
13	27.21	15.87	+ 2 + 8	23.87	26.17	+19 + 1	13.18	33.27	+ 8 − 7	57.40	35.93	−19 − 4
14	27.24	16.22	+ 9 + 8	23.62	26.46	+17 − 3	12.73	33.44	0 − 8	56.86	35.93	−22 0
15	27.26	16.58	+15 + 6	23.37	26.75	+12 − 6	12.27	33.60	− 9 − 8	56.33	35.92	−22 + 5
16	27.27	16.93	+18 + 3	23.11	27.04	+ 5 − 8	11.80	33.76	−16 − 6	55.79	35.90	−18 + 9
17	27.27	17.29	+18 0	22.84	27.32	− 3 − 8	11.33	33.91	−21 − 2	55.26	35.88	−10 +12
18	27.26	17.64	+15 − 4	22.55	27.60	−11 − 7	10.86	34.06	−23 + 2	54.72	35.85	− 1 +13
19	27.25	17.99	+10 − 7	22.26	27.87	−18 − 4	10.38	34.20	−21 + 7	54.18	35.82	+ 8 +11
20	27.23	18.34	+ 2 − 8	21.96	28.14	−22 0	9.90	34.34	−15 +11	53.65	35.78	+15 + 7
21	27.19	18.69	− 7 − 8	21.66	28.41	−23 + 4	9.41	34.47	− 6 +12	53.12	35.73	+18 + 2
22	27.15	19.04	−14 − 6	21.35	28.67	−19 + 8	8.92	34.60	+ 4 +12	52.59	35.68	+16 − 4
23	27.09	19.39	−20 − 3	21.03	28.93	−11 +11	8.42	34.72	+12 + 9	52.06	35.62	+10 − 9
24	27.03	19.73	−22 + 1	20.70	29.19	− 1 +12	7.92	34.83	+18 + 4	51.53	35.56	+ 1 −11
25	26.96	20.07	−21 + 6	20.36	29.44	+ 8 +10	7.42	34.94	+19 − 2	51.01	35.49	− 7 −11
26	26.88	20.41	−15 + 9	20.02	29.69	+16 + 6	6.91	35.04	+15 − 7	50.49	35.42	−13 − 8
27	26.79	20.75	− 6 +11	19.67	29.94	+19 + 1	6.40	35.14	+ 8 −10	49.97	35.34	−16 − 4
28	26.69	21.09	+ 3 +11	19.31	30.18	+18 − 4	5.89	35.23	− 1 −12	49.45	35.25	−14 0
29	26.58	21.43	+12 + 9	18.95	30.42	+13 − 9	5.37	35.32	− 9 −10	48.93	35.16	− 9 + 4
30	26.46	21.76	+18 + 4	18.58	30.65	+ 5 −12	4.85	35.40	−14 − 7	48.42	35.06	− 1 + 7
31	26.33	22.09	+20 − 1	18.20	30.88	− 4 −11	4.33	35.48	−15 − 3	47.91	34.95	+ 7 + 7
32	26.19	22.42	+17 − 6				3.81	35.55	−12 + 2	47.41	34.84	+14 + 6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 52′ 10″	26.899	−26.880	−87° 52′ 20″	26.934	−26.915	−87° 52′ 30″	26.969	−26.950
20	26.934	−26.915	30	26.969	−26.950	40	27.004	−26.986

$\alpha_{1930.0} = 14^{h}\ 51^{m}\ 57^{s}.88$ $\delta_{1930.0} = -87°\ 52'\ 3''.98$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Se) Octantis 20 G. $6^m.52$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$14^h\ 51^m$	−87° 52′	in 0.01^s	$0.01''$	$14^h\ 51^m$	−87° 52′	in 0.01^s	$0.01''$	$14^h\ 51^m$	−87° 52′	in 0.01^s	$0.01''$	$14^h\ 51^m$	−87° 52′	in 0.01^s	$0.01''$
1	$47^s.41$	$34''.84$	+14	+ 6	$34^s.89$	$29''.24$	+20	− 2	$30^s.30$	$20''.28$	− 3	− 9	$36^s.15$	$11''.58$	−20	− 2
2	46.91	34.73	+19	+ 4	34.59	28.99	+16	− 6	30.33	19.97	−11	− 8	36.51	11.33	−21	+ 2
3	46.42	34.61	+21	0	34.30	28.73	+10	− 8	30.37	19.66	−17	− 5	36.88	11.08	−19	+ 7
4	45.93	34.48	+19	− 3	34.02	28.47	+ 2	− 9	*)30.42	19.35	−21	− 1	37.26	10.84	−13	+10
5	45.44	34.35	+14	− 6	33.74	28.21	− 6	− 9	30.48	19.05	−21	+ 4	37.66	10.60	− 5	+12
6	44.96	34.22	+ 7	− 8	33.47	27.94	−13	− 7	30.56	18.74	−17	+ 8	38.06	10.36	+ 5	+11
7	44.48	34.08	− 1	− 9	33.21	27.67	−19	− 3	30.65	18.43	−10	+11	38.47	10.13	+13	+ 8
8	44.01	33.93	− 9	− 8	32.96	27.40	−21	+ 1	30.75	18.13	− 1	+12	38.89	9.90	+18	+ 4
9	43.54	33.78	−16	− 5	32.72	27.13	−20	+ 5	30.86	17.83	+ 8	+10	39.32	9.67	+19	− 2
10	43.08	33.62	−21	− 2	32.50	26.85	−15	+ 9	30.98	17.52	+15	+ 7	39.76	9.45	+15	− 7
11	42.62	33.46	−22	+ 3	32.29	26.57	− 7	+12	31.12	17.22	+18	+ 2	40.21	9.23	+ 7	−10
12	42.17	33.29	−19	+ 8	32.08	26.29	+ 2	+12	31.26	16.92	+17	− 3	40.67	9.02	− 2	−11
13	41.72	33.12	−13	+11	31.89	26.00	+11	+10	31.42	16.62	+11	− 8	41.14	8.81	−11	− 9
14	41.28	32.94	− 4	+12	31.71	25.71	+16	+ 5	31.59	16.32	+ 3	−10	41.62	8.61	−16	− 6
15	40.85	32.76	+ 5	+11	31.53	25.42	+17	0	31.77	16.03	− 7	−10	42.10	8.41	−17	− 1
16	40.42	32.57	+13	+ 9	31.37	25.13	+14	− 5	31.96	15.73	−14	− 8	42.59	8.22	−14	+ 3
17	40.00	32.38	+17	+ 4	31.22	24.84	+ 7	− 9	32.17	15.44	−18	− 4	43.09	8.03	− 8	+ 7
18	39.59	32.18	+17	− 2	31.08	24.55	− 2	−10	32.38	15.15	−17	+ 1	43.60	7.85	+ 1	+ 8
19	39.18	31.98	+12	− 7	30.95	24.25	−10	− 9	32.60	14.86	−12	+ 5	44.12	7.67	+ 9	+ 8
20	38.78	31.78	+ 4	−10	30.83	23.95	−16	− 6	32.84	14.57	− 4	+ 7	44.64	7.49	+16	+ 6
21	38.38	31.57	− 5	−11	30.72	23.65	−18	− 2	33.09	14.28	+ 4	+ 8	45.17	7.32	+20	+ 2
22	38.00	31.35	−12	− 9	30.63	23.34	−15	+ 2	33.34	14.00	+13	+ 7	45.71	7.16	+20	− 1
23	37.62	31.13	−16	− 5	30.54	23.04	− 9	+ 6	33.61	13.72	+18	+ 4	46.25	7.00	+17	− 5
24	37.25	30.91	−16	− 1	30.47	22.74	0	+ 8	33.89	13.44	+20	+ 1	46.80	6.84	+11	− 7
25	36.89	30.69	−12	+ 3	30.41	22.43	+ 8	+ 8	34.18	13.17	+19	− 3	47.36	6.69	+ 3	− 9
26	36.54	30.46	− 5	+ 6	30.36	22.13	+15	+ 6	34.48	12.90	+15	− 6	47.92	6.55	− 5	− 9
27	36.19	30.22	+ 4	+ 8	30.32	21.82	+20	+ 3	34.80	12.63	+ 8	− 8	48.49	6.41	−13	− 7
28	35.85	29.98	+12	+ 7	30.30	21.51	+21	− 1	35.12	12.36	0	− 9	49.07	6.28	−19	− 4
29	35.52	29.74	+18	+ 5	30.28	21.20	+18	− 4	35.46	12.10	− 8	− 8	49.65	6.15	−22	+ 1
30	35.20	29.49	+21	+ 2	30.27	20.89	+13	− 7	35.80	11.84	−15	− 6	50.24	6.03	−21	+ 5
31	34.89	29.24	+20	− 2	30.28	20.58	+ 6	− 9	36.15	11.58	−20	− 2	50.83	5.91	−16	+ 9
32					30.30	20.28	− 3	− 9					51.43	5.80	− 9	+12

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 52′ 0″	26.864	−26.845	−87° 52′ 20″	26.934	−26.915	−87° 52′ 30″	26.969	−26.950
10	26.899	−26.880	30	26.969	−26.950	40	27.004	−26.986

$\alpha_{1930.0} = 14^h\ 51^m\ 57^s.88 \qquad \delta_{1930.0} = -87°\ 52'\ 3''.98$

*) Tag der doppelten unteren Kulmination: Nov. 4

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sf) Octantis 26 G. $6^m.13$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$16^h 34^m$	−86° 14′	in $0^s.01$	in $0''.01$	$16^h 34^m$	−86° 14′	in $0^s.01$	in $0''.01$	$16^h 34^m$	−86° 14′	in $0^s.01$	in $0''.01$	$16^h 34^m$	−86° 14′	in $0^s.01$	in $0''.01$
1	0.42	29.99	+ 9	+ 4	10.64	24.91	+ 2	− 8	21.78	24.42	0	− 9	33.73	28.34	−14	− 1
2	0.69	29.76	+ 9	+ 1	11.02	24.82	− 4	− 9	22.18	24.48	− 5	− 9	34.08	28.54	−13	+ 4
3	0.96	29.54	+ 8	− 3	11.40	24.74	− 8	− 8	22.58	24.54	−10	− 7	34.43	28.74	−10	+ 9
4	1.24	29.32	+ 4	− 7	11.78	24.66	−12	− 6	22.99	24.61	−13	− 3	34.78	28.94	− 5	+11
5	1.52	29.10	0	− 9	12.17	24.59	−15	− 1	23.39	24.68	−14	+ 2	35.12	29.15	+ 1	+11
6	1.80	28.88	− 5	− 9	12.56	24.52	−14	+ 4	23.79	24.75	−13	+ 6	35.46	29.36	+ 6	+ 9
7	2.09	28.67	−10	− 7	12.95	24.46	−12	+ 8	24.19	24.83	− 9	+10	35.80	29.57	+10	+ 4
8	2.39	28.46	−14	− 4	13.34	24.41	− 7	+11	24.59	24.92	− 3	+12	36.13	29.79	+11	− 1
9	2.69	28.26	−15	+ 1	13.73	24.36	− 1	+12	24.99	25.01	+ 3	+11	36.46	30.01	+10	− 6
10	3.00	28.06	−14	+ 6	14.13	24.31	+ 5	+ 9	25.39	25.10	+ 8	+ 7	36.79	30.23	+ 6	−10
11	3.31	27.87	−10	+ 9	14.53	24.27	+10	+ 5	25.78	25.20	+11	+ 2	37.12	30.46	+ 1	−11
12	3.62	27.68	− 4	+11	14.92	24.24	+11	0	26.18	25.31	+11	− 3	37.44	30.69	− 4	−10
13	3.94	27.50	+ 3	+11	15.32	24.21	+11	− 5	26.58	25.42	+ 8	− 8	37.76	30.92	− 7	− 7
14	4.26	27.32	+ 8	+ 8	15.72	24.18	+ 8	− 9	26.97	25.53	+ 4	−11	38.07	31.16	− 9	− 2
15	4.59	27.15	+12	+ 3	16.12	24.16	+ 3	−11	27.36	25.65	− 1	−11	38.38	31.40	− 8	+ 2
16	4.92	26.98	+12	− 3	16.52	24.15	− 2	−11	27.75	25.78	− 5	− 9	38.69	31.65	− 5	+ 6
17	5.25	26.81	+10	− 7	16.92	24.14	− 6	− 8	28.14	25.91	− 7	− 5	38.99	31.90	− 1	+ 8
18	5.59	26.65	+ 6	−11	17.32	24.13	− 7	− 4	28.53	26.04	− 8	− 1	39.29	32.15	+ 3	+ 9
19	5.93	26.49	+ 2	−12	17.73	24.13	− 7	+ 1	28.92	26.17	− 6	+ 4	39.59	32.41	+ 7	+ 8
20	6.27	26.34	− 3	−10	18.13	24.14	− 5	+ 5	29.30	26.31	− 3	+ 7	39.88	32.67	+10	+ 6
21	6.62	26.19	− 6	− 6	18.54	24.15	− 1	+ 8	29.68	26.46	+ 1	+ 9	40.17	32.93	+11	+ 2
22	6.97	26.05	− 7	− 2	18.94	24.16	+ 3	+ 9	30.06	26.61	+ 5	+ 9	40.45	33.19	+10	− 2
23	7.32	25.91	− 7	+ 3	19.35	24.18	+ 6	+ 8	30.44	26.76	+ 8	+ 7	40.73	33.46	+ 7	− 5
24	7.68	25.78	− 4	+ 6	19.75	24.21	+ 9	+ 6	30.82	26.92	+10	+ 4	41.00	33.73	+ 3	− 8
25	8.04	25.65	0	+ 8	20.16	24.24	+10	+ 3	31.19	27.08	+11	+ 1	41.27	34.00	− 1	− 9
26	8.40	25.53	+ 4	+ 9	20.56	24.28	+10	− 1	31.56	27.25	+ 9	− 3	41.54	34.27	− 6	− 9
27	8.77	25.41	+ 7	+ 8	20.97	24.32	+ 8	− 5	31.93	27.42	+ 6	− 7	41.80	34.55	−11	− 6
28	9.14	25.30	+ 9	+ 5	21.37	24.37	+ 4	− 8	32.30	27.60	+ 2	− 9	42.06	34.83	−13	− 2
29	9.51	25.20	+10	+ 2	21.78	24.42	0	− 9	32.66	27.78	− 3	− 9	42.32	35.11	−13	+ 2
30	9.88	25.10	+ 9	− 2					33.02	27.96	− 8	− 8	42.57	35.39	−11	+ 7
31	10.26	25.00	+ 6	− 6					33.38	28.15	−12	− 5	42.82	35.68	− 7	+10
32	10.64	24.91	+ 2	− 8					33.73	28.34	−14	− 1				

δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 14′ 20″	15.245	−15.212	−86° 14′ 30″	15.256	−15.223
30	15.256	−15.223	40	15.267	−15.234

$\alpha_{1930.0} = 16^h\ 34^m\ 25^s.14 \qquad \delta_{1930.0} = -86^\circ\ 14'\ 35''.66$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sf) Octantis 26 G. $6^m.13$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$16^h 34^m$	−86° 14′	in 0.01s 0.01″	$16^h 34^m$	−86° 14′	in 0.01s 0.01″	$16^h 34^m$	−86° 14′	in 0.01s 0.01″	$16^h 34^m$	−86° 15′	in 0.01s 0.01″
1	42.82s	35.68″	− 7 +10	48.07s	45.71″	+12 − 3	47.93s	55.21″	+ 3 −12	42.86s	2.78″	− 8 − 1
2	43.06	35.97	− 1 +11	48.15	46.03	+10 − 7	47.84	55.50	− 2 −11	42.63	2.96	− 6 + 4
3	43.30	36.26	+ 5 +10	48.22	46.36	+ 6 −11	47.75	55.79	− 6 − 8	42.39	3.14	− 2 + 7
4	43.53	36.55	+ 9 + 6	48.29	46.69	0 −11	47.65	56.07	− 8 − 3	42.15	3.31	+ 2 + 9
5	43.76	36.85	+12 + 1	48.35	47.02	− 4 −10	47.54	56.36	− 8 + 1	41.91	3.48	+ 6 + 9
6	43.98	37.15	+11 − 4	48.40	47.34	− 8 − 6	47.43	56.64	− 5 + 6	41.66	3.65	+ 9 + 7
7	44.20	37.45	+ 8 − 9	48.45	47.67	− 9 − 1	47.32	56.92	− 1 + 8	41.41	3.81	+11 + 4
8	44.41	37.75	+ 3 −11	48.49	47.99	− 7 + 3	47.20	57.20	+ 3 + 9	41.15	3.97	+11 0
9	44.62	38.05	− 2 −11	48.53	48.32	− 4 + 7	47.07	57.47	+ 7 + 8	40.89	4.12	+ 9 − 4
10	44.82	38.35	− 6 − 8	48.56	48.65	0 + 9	46.94	57.74	+10 + 6	40.63	4.26	+ 6 − 7
11	45.02	38.66	− 9 − 4	48.59	48.97	+ 4 + 9	46.80	58.01	+11 + 2	40.37	4.40	+ 1 − 9
12	45.21	38.97	− 9 + 1	48.61	49.29	+ 8 + 7	46.66	58.27	+10 − 2	40.11	4.53	− 4 − 9
13	45.40	39.28	− 6 + 5	48.62	49.62	+10 + 5	46.52	58.53	+ 8 − 5	39.84	4.66	− 9 − 8
14	45.58	39.59	− 3 + 8	48.63	49.94	+10 + 1	46.37	58.79	+ 4 − 8	39.57	4.79	−13 − 4
15	45.76	39.91	+ 1 + 9	48.64	50.26	+ 9 − 3	46.21	59.05	− 1 − 9	39.30	4.91	−14 0
16	45.93	40.22	+ 6 + 9	48.64	50.58	+ 6 − 6	46.05	59.30	− 6 − 9	39.02	5.02	−14 + 5
17	46.10	40.54	+ 9 + 7	48.63	50.90	+ 2 − 8	45.89	59.55	−11 − 6	38.74	5.13	−11 + 9
18	46.26	40.85	+10 + 3	48.61	51.22	− 3 − 9	45.72	59.79	−14 − 3	38.46	5.23	− 6 +12
19	46.42	41.17	+10 0	48.59	51.53	− 8 − 8	45.54	60.03	−15 + 2	38.18	5.33	0 +12
20	46.57	41.49	+ 8 − 4	48.56	51.85	−12 − 5	45.36	60.27	−13 + 7	37.89	5.42	+ 5 + 9
21	46.72	41.81	+ 5 − 7	48.53	52.16	−14 − 1	45.18	60.50	− 9 +10	37.61	5.51	+ 9 + 5
22	46.86	42.13	0 − 9	48.50	52.47	−14 + 4	44.99	60.73	− 3 +12	37.32	5.59	+11 − 1
23	47.00	42.46	− 5 − 9	48.46	52.78	−11 + 8	44.79	60.96	+ 3 +11	37.03	5.66	+ 9 − 6
24	47.13	42.78	− 9 − 7	48.41	53.09	− 6 +11	44.59	61.18	+ 8 + 7	36.74	5.73	+ 6 −10
25	47.25	43.10	−13 − 4	48.36	53.40	0 +11	44.39	61.40	+11 + 2	36.44	5.79	+ 1 −11
26	47.37	43.43	−14 + 1	48.30	53.71	+ 6 + 9	44.19	61.61	+11 − 3	36.15	5.85	− 3 −10
27	47.49	43.75	−13 + 5	48.24	54.01	+10 + 5	43.98	61.82	+ 9 − 8	35.85	5.90	− 7 − 7
28	47.60	44.07	− 9 + 9	48.17	54.31	+12 0	43.76	62.02	+ 5 −11	35.55	5.94	− 8 − 2
29	47.70	44.40	− 3 +11	48.10	54.61	+11 − 6	43.54	62.22	0 −11	35.25	5.98	− 7 + 2
30	47.80	44.72	+ 3 +11	48.02	54.91	+ 8 −10	43.32	62.41	− 4 − 9	34.95	6.01	− 4 + 6
31	47.90 47.99	45.05 45.38	+ 8 + 8 +12 + 3	47.93	55.21	+ 3 −12	43.09	62.60	− 7 − 5	34.65	6.04	0 + 8
32	48.07	45.71	+12 − 3				42.86	62.78	− 8 − 1	34.35	6.06	+ 5 + 9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 14′ 30″	15.256	−15.223	−86° 14′ 50″	15.278	−15.246	−86° 15′ 0″	15.290	−15.257
40	15.267	−15.234	60	15.290	−15.257	10	15.301	−15.268

$\alpha_{1930.0} = 16^h\ 34^m\ 25^s.14 \qquad \delta_{1930.0} = -86°\ 14'\ 35''.66$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sf) Octantis 26 G. $6^m.13$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$16^h 34^m$	−86° 15′	in $0^s.01$ $0''.01$	$16^h 34^m$	−86° 14′	in $0^s.01$ $0''.01$	$16^h 34^m$	−86° 14′	in $0^s.01$ $0''.01$	$16^h 34^m$	−86° 14′	in $0^s.01$ $0''.01$
1	$34^s.35$	$6''.06$	+5 +9	25.57	64.05	+12 +2	19.36	57.18	+3 −9	18.62	48.12	−10 −6
2	34.04	6.08	+9 +7	25.31	63.89	+11 −1	19.24	56.90	−2 −9	18.70	47.81	−13 −2
3	33.74	6.09	+11 +5	25.05	63.73	+9 −5	19.13	56.62	−7 −8	18.78	47.51	−13 +2
4	33.44	6.10	+12 +1	24.79	63.57	+5 −8	19.02	56.34	−11 −5	18.87	47.21	−12 +7
5	33.13	6.10	+11 −3	24.54	63.40	+1 −9	18.92	56.05	−13 −1	18.97	46.90	−8 +10
6	32.83	6.09	+8 −6	24.29	63.23	−4 −9	18.83	55.76	−13 +4	19.08	46.60	−2 +12
7	32.53	6.08	+4 −9	24.05	63.05	−9 −7	18.74	55.46	−10 +8	19.19	46.29	+3 +10
8	32.23	6.06	−1 −9	23.81	62.86	−12 −4	18.66	55.17	−6 +11	19.31	45.99	+8 +7
9	31.93	6.04	−6 −9	23.57	62.67	−13 +1	18.59	54.87	0 +11	19.43	45.70	+11 +2
10	31.63	6.01	−11 −6	23.33	62.47	−13 +5	18.52	54.57	+5 +10	19.56	45.40	+11 −3
11	31.33	5.97	−13 −2	23.10	62.27	−9 +9	18.46	54.27	+9 +6	19.70	45.10	+9 −8
12	31.03	5.93	−14 +3	22.87	62.07	−4 +12	18.40	53.97	+11 0	19.85	44.81	+4 −11
13	30.73	5.88	−12 +7	22.65	61.86	+1 +11	18.35	53.67	+10 −5	20.00	44.52	−1 −11
14	30.43	5.83	−8 +11	22.43	61.65	+6 +8	18.31	53.37	+6 −9	20.16	44.22	−6 −9
15	30.13	5.77	−3 +12	22.22	61.44	+9 +4	18.28	53.06	+1 −11	20.32	43.93	−9 −5
16	29.83	5.70	+3 +11	22.01	61.22	+10 −2	18.25	52.76	−4 −10	20.49	43.65	−9 0
17	29.53	5.63	+7 +7	21.81	61.00	+8 −7	18.23	52.45	−8 −7	20.67	43.37	−7 +5
18	29.23	5.55	+10 +2	21.61	60.77	+4 −10	18.21	52.14	−10 −3	20.85	43.09	−3 +8
19	28.94	5.47	+10 −4	21.42	60.54	−1 −11	18.20	51.84	−9 +2	21.04	42.81	+1 +10
20	28.65	5.38	+7 −8	21.23	60.30	−6 −9	18.20	51.53	−6 +6	21.24	42.53	+6 +9
21	28.36	5.29	+2 −11	21.04	60.06	−9 −6	18.21	51.22	−1 +9	21.44	42.26	+10 +6
22	28.07	5.19	−3 −11	20.86	59.81	−9 −1	18.22	50.91	+4 +9	21.65	41.99	+12 +3
23	27.78	5.09	−6 −8	20.69	59.56	−8 +4	18.24	50.60	+8 +8	21.86	41.72	+12 −1
24	27.50	4.98	−8 −4	20.52	59.31	−4 +7	18.26	50.29	+11 +5	22.08	41.46	+9 −5
25	27.22	4.86	−8 +1	20.35	59.06	+1 +9	18.29	49.98	+12 +1	22.30	41.20	+6 −8
26	26.94	4.74	−5 +5	20.19	58.80	+6 +9	18.33	49.67	+11 −3	22.53	40.94	+1 −9
27	26.66	4.61	−1 +8	20.04	58.54	+9 +7	18.37	49.36	+8 −6	22.77	40.69	−4 −9
28	26.38	4.48	+3 +9	19.89	58.28	+12 +4	18.42	49.05	+4 −9	23.01	40.44	−9 −7
29	26.11	4.34	+8 +8	19.75	58.01	+12 0	18.48	48.74	−1 −10	23.25	40.19	−12 −4
30	25.84	4.20	+11 +6	19.61	57.74	+10 −4	*)18.55	48.43	−6 −9	23.50	39.95	−14 0
31	25.57	4.05	+12 +2	19.48	57.46	+7 −7	18.62	48.12	−10 −6	23.76	39.71	−13 +5
32				19.36	57.18	+3 −9				24.02	39.47	−10 +9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 14′ 30″	15.256	−15.223	−86° 14′ 40″	15.267	−15.234	−86° 15′ 0″	15.290	−15.257
40	15.267	−15.234	50	15.278	−15.246	10	15.301	−15.268

$\alpha_{1930.0} = 16^h\ 34^m\ 25^s.14 \qquad \delta_{1930.0} = -86°\ 14'\ 35''.66$

*) Tag der doppelten unteren Kulmination: Nov. 30

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sg) χ Octantis $5^m.22$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder	
	$18^h 13^m$	$-87° 39'$	in 0.01^s	in $0.01''$	$18^h 13^m$	$-87° 39'$	in 0.01^s	in $0.01''$
1	$16^s.55$	$46''.80$	+10	+7	$27^s.61$	$38''.05$	+8	−7
2	16.76	46.48	+13	+4	28.10	37.82	+2	−10
3	16.99	46.17	+13	−1	28.59	37.59	−6	−11
4	17.23	45.86	+10	−5	29.09	37.37	−14	−10
5	17.48	45.55	+5	−8	29.59	37.15	−20	−6
6	17.74	45.24	−2	−10	30.10	36.93	−23	−2
7	18.01	44.93	−10	−11	30.62	36.71	−22	+4
8	18.29	44.62	−17	−8	31.15	36.50	−17	+8
9	18.58	44.32	−22	−4	31.68	36.29	−8	+11
10	18.88	44.02	−23	+1	32.22	36.09	+2	+11
11	19.18	43.72	−20	+6	32.76	35.89	+11	+8
12	19.50	43.42	−12	+9	33.31	35.70	+17	+4
13	19.83	43.12	−3	+11	33.86	35.51	+19	−1
14	20.16	42.83	+7	+10	34.42	35.33	+17	−6
15	20.50	42.54	+15	+7	34.98	35.15	+11	−10
16	20.85	42.25	+19	+3	35.55	34.97	+4	−10
17	21.21	41.96	+20	−3	36.12	34.80	−3	−9
18	21.58	41.68	+16	−8	36.70	34.63	−8	−6
19	21.96	41.40	+9	−10	37.28	34.47	−11	−1
20	22.34	41.12	+2	−10	37.87	34.31	−10	+3
21	22.74	40.85	−5	−8	38.46	34.16	−7	+7
22	23.15	40.58	−9	−4	39.05	34.01	−2	+9
23	23.56	40.31	−11	0	39.65	33.86	+4	+10
24	23.98	40.05	−9	+5	40.25	33.72	+9	+9
25	24.41	39.79	−6	+8	40.86	33.58	+13	+6
26	24.84	39.53	0	+10	41.47	33.45	+15	+2
27	25.28	39.27	+5	+10	42.08	33.32	+14	−2
28	25.73	39.02	+10	+8	42.70	33.20	+11	−6
29	26.19	38.77	+13	+5	43.32	33.08	+5	−9
30	26.66	38.53	+14	+1				
31	27.13	38.29	+13	−3				
32	27.61	38.05	+8	−7				

Tag	März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$18^h 13^m$	$-87° 39'$	in 0.01^s	in $0.01''$	$18^h 14^m$	$-87° 39'$	in 0.01^s	in $0.01''$
1	43.32	33.08	+5	−9	3.30	31.81	−19	−5
2	43.94	32.97	−2	−10	3.95	31.85	−21	0
3	44.57	32.86	−10	−10	4.59	31.89	−19	+5
4	45.20	32.76	−17	−8	5.23	31.94	−14	+9
5	45.83	32.66	−21	−3	5.87	31.99	−5	+11
6	46.46	32.56	−22	+2	6.51	32.04	+4	+10
7	47.10	32.47	−18	+6	7.15	32.10	+12	+7
8	47.73	32.39	−11	+10	7.79	32.16	+17	+3
9	48.37	32.31	−2	+11	8.42	32.23	+17	−3
10	49.01	32.23	+7	+10	9.05	32.30	+14	−7
11	49.65	32.16	+14	+6	9.68	32.38	+8	−10
12	50.30	32.10	+17	+1	10.31	32.46	0	−11
13	50.95	32.04	+17	−5	10.93	32.55	−6	−9
14	51.60	31.98	+12	−9	11.55	32.64	−11	−5
15	52.25	31.93	+5	−11	12.17	32.74	−12	0
16	52.90	31.88	−1	−10	12.78	32.84	−10	+4
17	53.55	31.84	−7	−7	13.39	32.94	−6	+8
18	54.20	31.80	−10	−3	14.00	33.05	−1	+10
19	54.85	31.77	−11	+2	14.60	33.16	+5	+11
20	55.50	31.75	−8	+6	15.20	33.28	+10	+9
21	56.15	31.73	−4	+9	15.80	33.40	+13	+5
22	56.80	31.71	+2	+10	16.39	33.53	+15	+2
23	57.45	31.70	+7	+10	16.98	33.66	+14	−3
24	58.10	31.69	+12	+7	17.56	33.79	+10	−6
25	58.75	31.69	+15	+4	18.14	33.93	+4	−9
26	59.40	31.69	+15	0	18.72	34.08	−3	−11
27	60.05	31.70	+13	−4	19.29	34.23	−11	−10
28	60.70	31.71	+8	−8	19.86	34.38	−17	−7
29	61.35	31.73	+1	−10	20.43	34.53	−20	−2
30	62.00	31.75	−6	−11	20.99	34.69	−20	+3
31	62.65	31.78	−14	−9	21.55	34.86	−16	+7
32	63.30	31.81	−19	−5				

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 30″	24.475	−24.454	−87° 39′ 40″	24.504	−24.483
40	24.504	−24.483	50	24.533	−24.513

$\alpha_{1930.0} = 18^h\ 13^m\ 56^s.26$ $\delta_{1930.0} = -87°\ 39'\ 42''.06$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

89) χ Octantis $5^m.22$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$18^h 14^m$	−87° 39'	in 0.01s 0.01"	$18^h 14^m$	−87° 39'	in 0.01s 0.01"	$18^h 14^m$	−87° 39'	in 0.01s 0.01"	$18^h 14^m$	−87° 40'	in 0.01s 0.01"
1	21.55	34.86	−16 + 7	35.76	41.74	+15 + 7	42.48	50.90	+12 −10	40.33	0.11	−10 − 3
2	22.10	35.03	− 8 +10	36.11	42.01	+19 + 2	42.55	51.21	+ 4 −11	40.12	0.38	−11 + 2
3	22.64	35.20	+ 1 +11	36.45	42.28	+19 − 4	42.61	51.52	− 4 − 9	39.90	0.65	− 8 + 6
4	23.18	35.38	+10 + 9	36.78	42.56	+15 − 8	42.66	51.83	− 9 − 6	39.67	0.91	− 3 + 9
5	23.71	35.56	+16 + 5	37.10	42.84	+ 8 −10	42.70	52.14	−12 − 1	39.43	1.17	+ 3 +10
6	24.24	35.75	+18 0	37.41	43.12	0 −10	42.73	52.45	−11 + 4	39.18	1.43	+ 9 +10
7	24.76	35.94	+17 − 6	37.71	43.40	− 7 − 8	42.76	52.76	− 7 + 7	38.92	1.68	+13 + 7
8	25.28	36.13	+11 − 9	38.01	43.68	−11 − 4	42.78	53.07	− 2 +10	38.66	1.93	+16 + 4
9	25.79	36.32	+ 3 −11	38.30	43.96	−13 + 1	42.79	53.38	+ 4 +10	38.39	2.18	+16 − 1
10	26.30	36.52	− 4 −10	38.58	44.25	−10 + 5	42.78	53.69	+10 + 9	38.11	2.42	+13 − 5
11	26.80	36.72	−10 − 7	38.86	44.54	− 6 + 9	42.77	53.99	+14 + 6	37.82	2.66	+ 8 − 8
12	27.30	36.93	−13 − 2	39.13	44.83	0 +10	42.74	54.30	+15 + 2	37.52	2.89	0 −10
13	27.79	37.14	−12 + 3	39.38	45.13	+ 6 +10	42.71	54.61	+14 − 2	37.22	3.12	− 8 −10
14	28.27	37.35	− 9 + 7	39.62	45.42	+11 + 8	42.67	54.91	+10 − 6	36.91	3.35	−15 − 9
15	28.74	37.57	− 4 + 9	39.85	45.72	+14 + 4	42.62	55.21	+ 4 − 9	36.59	3.58	−21 − 5
16	29.21	37.79	+ 2 +10	40.08	46.01	+15 0	42.56	55.51	− 3 −10	36.27	3.80	−23 0
17	29.67	38.01	+ 8 + 9	40.30	46.31	+13 − 4	42.49	55.81	−11 −10	35.94	4.02	−21 + 5
18	30.13	38.24	+13 + 7	40.51	46.61	+ 8 − 7	42.41	56.11	−18 − 7	35.60	4.23	−16 + 9
19	30.58	38.47	+15 + 3	40.71	46.91	+ 1 −10	42.32	56.41	−22 − 3	35.25	4.44	− 8 +11
20	31.02	38.70	+14 − 1	40.90	47.21	− 6 −11	42.22	56.71	−23 + 2	34.90	4.65	+ 2 +10
21	31.45	38.94	+11 − 5	41.08	47.52	−14 − 9	42.11	57.00	−19 + 7	34.54	4.85	+10 + 7
22	31.88	39.18	+ 6 − 8	41.25	47.82	−20 − 6	41.99	57.29	−12 +10	34.17	5.04	+16 + 3
23	32.30	39.42	− 1 −10	41.41	48.13	−22 − 1	41.87	57.58	− 3 +11	33.79	5.23	+17 − 3
24	32.71	39.67	− 9 −10	41.57	48.43	−21 + 4	41.74	57.87	+ 7 +10	33.41	5.42	+15 − 7
25	33.12	39.92	−16 − 8	41.72	48.74	−16 + 8	41.59	58.16	+14 + 6	33.03	5.61	+ 9 −10
26	33.52	40.17	−20 − 4	{41.85 {41.98	49.05 49.36	− 7 +11} + 2 +11}	41.44	58.45	+18 + 1	32.64	5.79	+ 2 −11
27	33.91	40.43	−21 + 1	42.10	49.66	+11 + 8	41.28	58.73	+18 − 4	32.24	5.96	− 5 − 9
28	34.30	40.69	−18 + 6	42.21	49.97	+18 + 4	41.11	59.01	+14 − 9	31.84	6.13	− 9 − 5
29	34.68	40.95	−11 + 9	42.31	50.28	+19 − 2	40.93	59.29	+ 7 −11	31.43	6.29	−11 0
30	35.05	41.21	− 2 +11	42.40	50.59	+17 − 7	40.74	59.57	0 −10	31.01	6.45	− 9 + 5
31	35.41	41.47	+ 7 +10	42.48	50.90	+12 −10	40.54	59.84	− 7 − 8	30.59	6.61	− 5 + 8
32	35.76	41.74	+15 + 7				40.33	60.11	−10 − 3	30.17	6.76	+ 1 +10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39' 30"	24.475	−24.454	−87° 39' 40"	24.504	−24.483	−87° 40' 0"	24.562	−24.542
40	24.504	−24.483	50	24.533	−24.513	10	24.591	−24.571

$\alpha_{1930.0} = 18^h\ 13^m\ 56^s.26$ $\delta_{1930.0} = -87°\ 39'\ 42''.06$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sg) χ Octantis 5ᵐ.22

Tag	September			Oktober			November			Dezember		
	AR.	Dekl	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$18^h\ 14^m$	—87° 40′	in 0.01ˢ 0.01″	$18^h\ 14^m$	—87° 40′	in 0.01ˢ 0.01″	$18^h\ 13^m$	—87° 39′	in 0.01ˢ 0.01″	$18^h\ 13^m$	—87° 39′	in 0.01ˢ 0.01″
1	30.17	6.76	+ 1 +10	15.92	8.65	+15 + 6	61.93	65.05	+ 9 − 8	54.31	57.18	−10 −10
2	29.74	6.90	+ 8 +10	15.43	8.62	+17 + 3	61.56	64.85	+ 2 −10	54.20	56.87	−17 − 7
3	29.31	7.04	+13 + 8	14.94	8.59	+16 − 1	61.19	64.64	− 5 −10	54.11	56.56	−21 − 3
4	28.87	7.17	+16 + 5	14.45	8.55	+13 − 6	60.83	64.42	−13 − 9	54.02	56.25	−21 + 2
5	28.43	7.30	+17 + 1	13.96	8.50	+ 7 − 9	60.48	64.20	−18 − 6	53.94	55.94	−18 + 7
6	27.98	7.42	+15 − 3	13.47	8.45	0 −10	60.13	63.98	−21 − 1	53.87	55.62	−11 +10
7	27.53	7.54	+10 − 7	12.98	8.39	− 8 −10	59.79	63.75	−20 + 4	53.81	55.30	− 2 +11
8	27.07	7.65	+ 4 − 9	12.49	8.33	−15 − 8	59.46	63.52	−15 + 8	53.76	54.98	+ 7 +10
9	26.61	7.76	− 4 −10	12.01	8.26	−20 − 4	59.14	63.29	− 7 +11	53.73	54.66	+14 + 6
10	26.15	7.86	−12 − 9	11.53	8.18	−21 + 1	58.83	63.05	+ 1 +11	53.71	54.34	+18 + 1
11	25.68	7.96	−18 − 7	11.05	8.10	−19 + 6	58.52	62.80	+10 + 8	53.69	54.01	+17 − 5
12	25.21	8.05	−22 − 2	10.57	8.01	−13 + 9	58.23	62.55	+15 + 4	53.69	53.69	+12 − 9
13	24.74	8.13	−22 + 3	10.10	7.92	− 5 +11	57.94	62.30	+17 − 1	53.70	53.37	+ 5 −11
14	24.27	8.21	−18 + 7	9.63	7.82	+ 4 +10	57.66	62.05	+15 − 6	53.72	53.04	− 3 −10
15	23.79	8.28	−11 +10	9.16	7.71	+11 + 7	57.39	61.79	+ 9 −10	53.74	52.71	−10 − 8
16	23.31	8.35	− 2 +11	8.69	7.60	+16 + 2	57.12	61.52	+ 1 −11	53.78	52.38	−13 − 3
17	22.83	8.41	+ 7 + 9	8.23	7.48	+16 − 4	56.86	61.25	− 7 −10	53.83	52.05	−13 + 2
18	22.35	8.47	+13 + 5	7.77	7.36	+12 − 8	56.61	60.98	−12 − 6	53.89	51.72	−10 + 6
19	21.86	8.52	+16 − 1	7.32	7.23	+ 5 −11	56.38	60.71	−14 − 1	53.97	51.39	− 4 +10
20	21.37	8.56	+15 − 6	6.87	7.09	− 2 −11	56.16	60.43	−12 + 4	54.05	51.06	+ 3 +11
21	20.88	8.60	+10 −10	6.43	6.95	− 9 − 8	55.95	60.15	− 7 + 8	54.14	50.74	+10 + 9
22	20.38	8.63	+ 3 −11	5.99	6.81	−13 − 4	55.74	59.87	− 1 +10	54.24	50.41	+15 + 7
23	19.89	8.65	− 4 −10	5.56	6.66	−13 + 1	55.54	59.58	+ 6 +10	54.35	50.08	+17 + 3
24	19.40	8.67	−10 − 7	5.13	6.50	−10 + 6	55.35	59.29	+12 + 9	54.48	49.75	+16 − 1
25	18.90	8.69	−12 − 2	4.71	6.34	− 4 + 9	55.17	59.00	+16 + 5	*)54.62	49.43	+13 − 5
26	18.41	8.70	−11 + 3	4.30	6.17	+ 2 +11	55.00	58.70	+17 + 1	54.76	49.10	+ 7 − 8
27	17.91	8.70	− 7 + 7	3.89	5.99	+ 9 +10	54.85	58.40	+15 − 3	54.92	48.78	0 −10
28	17.41	8.70	− 1 +10	3.48	5.81	+14 + 8	54.70	58.10	+11 − 7	55.08	48.45	− 8 −10
29	16.92	8.69	+ 5 +11	3.08	5.63	+17 + 4	54.56	57.80	+ 5 − 9	55.26	48.13	−15 − 8
30	16.42	8.67	+11 +10	2.69	5.44	+17 0	54.43	57.49	− 3 −10	55.45	47.81	−20 − 4
31	15.92	8.65	+15 + 6	2.31	5.25	+14 − 4	54.31	57.18	−10 −10	55.64	47.49	−22 0
32				1.93	5.05	+ 9 − 8				55.85	47.17	−20 + 5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 40″	24.504	−24.483	−87° 39′ 50″	24.533	−24.513	−87° 40′ 0″	24.562	−24.542
50	24.533	−24.513	60	24.562	−24.542	10	24.591	−24.571

$\alpha_{1930.0} = 18^h\ 13^m\ 56^s.26$ $\delta_{1930.0} = -87°\ 39'\ 42''.06$

*) Tag der doppelten unteren Kulmination: Dez. 25

Sh) σ Octantis $5^m.48$

Tag	Januar AR.	Januar Dekl.	Januar ℂ Glieder	Februar AR.	Februar Dekl.	Februar ℂ Glieder	März AR.	März Dekl.	März ℂ Glieder	April AR.	April Dekl.	April ℂ Glieder
	$19^h 45^m$	−89° 11′	in 0.01^s $0.01''$	$19^h 46^m$	−89° 11′	in 0.01^s $0.01''$	$19^h 46^m$	−89° 11′	in 0.01^s $0.01''$	$19^h 47^m$	−89° 11′	in 0.01^s $0.01''$
1	54.94	54.57	+14 + 9	7.39	43.82	+34 − 5	39.50	35.46	+30 − 7	29.97	29.48	−39 − 9
2	54.90	54.22	+27 + 6	8.23	43.49	+23 − 9	40.94	35.21	+14 − 10	31.74	29.36	−54 − 5
3	54.89	53.87	+35 + 2	9.10	43.17	+ 5 − 11	42.39	34.96	− 7 − 12	33.52	29.24	−58 0
4	54.92	53.52	+36 − 2	9.99	42.84	−18 − 12	43.86	34.72	−29 − 11	35.30	29.13	−51 + 5
5	54.99	53.17	+29 − 7	10.90	42.51	−40 − 10	45.34	34.48	−48 − 8	37.09	29.02	−33 + 9
6	55.08	52.82	+14 10	11.84	42.19	−56 − 6	46.84	34.24	−59 − 3	38.88	28.92	− 9 + 10
7	55.19	52.48	− 6 − 12	12.80	41.87	−62 − 1	48.35	34.00	−59 + 2	40.67	28.82	+17 + 9
8	55.34	52.13	−28 − 12	13.79	41.54	−57 + 4	49.88	33.77	−47 + 7	42.47	28.73	+38 + 6
9	55.51	51.78	−47 − 9	14.80	41.22	−39 + 8	51.42	33.54	−25 + 10	44.27	28.64	+50 + 1
10	55.72	51.43	−59 − 4	15.84	40.91	−14 + 10	52.98	33.32	+ 1 + 10	46.08	28.56	+50 − 4
11	55.95	51.08	−60 + 1	16.90	40.60	+12 + 10	54.55	33.10	+26 + 8	47.89	28.48	+39 − 8
12	56.21	50.73	−49 + 6	17.98	40.29	+36 + 7	56.13	32.88	+44 + 4	49.70	28.41	+20 − 10
13	56.51	50.38	−27 + 10	19.09	39.98	+51 + 3	57.72	32.67	+51 − 1	51.51	28.34	− 1 − 10
14	56.83	50.03	0 + 11	20.21	39.67	+54 − 2	59.33	32.46	+47 − 5	53.32	28.27	−19 − 7
15	57.17	49.68	+27 + 9	21.36	39.37	+46 − 7	60.95	32.26	+34 − 9	55.13	28.21	−31 − 3
16	57.55	49.33	+47 + 6	22.52	39.07	+29 − 9	62.58	32.06	+14 − 9	56.94	28.16	−35 + 2
17	*)57.96	48.98	+57 + 1	23.71	38.77	+ 9 − 9	64.22	31.87	− 6 − 8	58.75	28.11	−31 + 6
18	58.39	48.63	+55 − 4	24.92	38.48	−10 − 7	65.87	31.68	−22 − 5	60.56	28.06	−20 + 9
19	58.86	48.28	+42 − 8	26.15	38.19	−25 − 3	67.54	31.49	−32 − 1	62.37	28.02	− 5 + 10
20	59.35	47.93	+23 9	27.40	37.90	−32 + 1	69.21	31.31	−32 + 4	64.18	27.99	+10 + 10
21	59.87	47.58	+ 2 − 8	28.66	37.61	−30 + 5	70.90	31.13	−26 + 7	65.99	27.96	+25 + 8
22	60.42	47.23	−16 − 6	29.95	37.33	−22 + 8	72.59	30.96	−14 + 10	67.79	27.93	+35 + 5
23	60.99	46.89	−29 − 2	31.26	37.05	− 9 + 10	74.29	30.79	+ 2 + 10	69.60	27.91	+40 0
24	61.59	46.54	−33 + 2	32.59	36.78	+ 6 + 10	76.01	30.63	+17 + 9	71.40	27.90	+37 − 4
25	62.22	46.20	−29 + 6	33.94	36.51	+21 + 9	77.73	30.47	+30 + 7	73.19	27.89	+27 − 8
26	62.88	45.86	−19 + 9	35.30	36.24	+33 + 5	79.45	30.32	+38 + 3	74.99	27.88	+10 − 10
27	63.57	45.51	− 4 + 10	36.69	35.98	+40 + 1	81.19	30.17	+40 − 1	76.78	27.88	−11 − 11
28	64.28	45.17	+11 + 9	38.09	35.72	+38 − 3	82.93	30.02	+34 − 5	78.57	27.88	−32 − 10
29	65.02	44.83	+24 + 7	39.50	35.46	+30 − 7	84.68	29.88	+21 − 9	80.35	27.89	−48 − 6
30	65.78	44.49	+34 + 4				86.44	29.74	+ 3 − 11	82.13	27.91	−56 − 1
31	66.57	44.16	+38 0				88.20	29.61	−19 − 11	83.90	27.93	−53 + 4
32	67.39	43.82	+34 − 5				89.97	29.48	−39 − 9			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 11′ 20″	70.641	−70.634	−89° 11′ 30″	70.884	−70.877	−89° 11′ 50″	71.374	−71.367
30	70.884	−70.877	40	71.128	−71.121	60	71.622	−71.615

$\alpha_{1930.0} = 19^h\ 47^m\ 31^s.25$ $\delta_{1930.0} = -89°\ 11'\ 40''.81$

*) Tag der doppelten unteren Kulmination: Jan. 17

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sh σ Octantis $5^m.48$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder	
	19h 48m	−89° 11′	in 0.01s	in 0.01″	19h 49m	−89° 11′	in 0.01s	in 0.01″
1	23.90	27.93	−53	+4	14.34	30.91	+26	+9
2	25.67	27.95	−39	+8	15.76	31.08	+46	+5
3	27.43	27.98	−16	+10	17.16	31.25	+55	0
4	29.18	28.02	+10	+10	18.55	31.43	+52	−4
5	30.93	28.06	+33	+8	19.92	31.61	+38	−8
6	32.67	28.10	+48	+3	21.27	31.80	+18	−10
7	34.40	28.15	+53	−2	22.61	31.99	−4	−9
8	36.13	28.21	+45	−6	23.92	32.18	−23	−6
9	37.85	28.27	+29	−9	25.22	32.38	−34	−2
10	39.56	28.33	+7	−10	26.50	32.58	−36	+3
11	41.26	28.40	−13	−8	27.76	32.78	−31	+7
12	42.95	28.47	−29	−5	29.00	32.99	−18	+9
13	44.63	28.55	−37	0	30.22	33.20	−2	+10
14	46.31	28.63	−35	+4	31.42	33.42	+14	+9
15	47.97	28.72	−26	+8	32.60	33.64	+28	+7
16	49.62	28.81	−12	+10	33.76	33.86	+37	+3
17	51.26	28.91	+4	+10	34.90	34.08	+39	−1
18	52.89	29.01	+20	+9	36.01	34.31	+33	−5
19	54.51	29.12	+32	+6	37.11	34.54	+21	−9
20	56.12	29.23	+38	+2	38.19	34.78	+2	−11
21	57.71	29.35	+38	−3	39.24	35.02	−19	−11
22	59.29	29.47	+30	−7	40.28	35.26	−40	−10
23	60.86	29.59	+15	−10	41.29	35.51	−55	−6
24	62.41	29.72	−4	−11	42.27	35.76	−60	−1
25	63.95	29.86	−25	−11	43.24	36.01	−54	+4
26	65.48	30.00	−44	−8	44.18	36.26	−37	+8
27	67.00	30.14	−55	−4	45.10	36.51	−13	+11
28	68.50	30.28	−56	+1	45.99	36.77	+15	+10
29	69.98	30.43	−46	+6	46.86	37.03	+39	+7
30	71.45	30.59	−26	+10	47.71	37.30	+53	+3
31	72.90	30.75	0	+11	48.53	37.57	+56	−2
32	74.34	30.91	+26	+9				

Tag	Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	19h 49m	−89° 11′	in 0.01s	in 0.01″	19h 49m	−89° 11′	in 0.01s	in 0.01″
1	48.53	37.57	+56	−2	61.01	46.95	−22	−5
2	49.32	37.84	+47	−7	60.95	47.25	−31	0
3	50.09	38.11	+29	−9	60.86	47.55	−32	+4
4	50.84	38.38	+7	−9	60.74	47.86	−24	+8
5	51.56	38.66	−14	−7	60.60	48.16	−11	+10
6	52.25	38.94	−29	−3	60.42	48.46	+5	+11
7	52.92	39.22	−35	+1	60.22	48.76	+21	+9
8	53.57	39.50	−32	+6	59.99	49.06	+34	+7
9	54.19	39.78	−22	+9	59.73	49.36	+41	+3
10	54.79	40.07	−7	+10	59.45	49.66	+41	−2
11	55.36	40.36	+10	+10	59.14	49.95	+33	−6
12	55.90	40.65	+25	+8	58.80	50.24	+19	−9
13	56.42	40.94	+36	+5	58.43	50.53	−1	−11
14	56.91	41.23	+40	+1	58.04	50.82	−23	−11
15	57.37	41.53	+37	−4	57.62	51.11	−45	−9
16	57.81	41.82	+27	−8	57.17	51.40	−59	−5
17	58.22	42.11	+10	−10	56.69	51.68	−63	0
18	58.60	42.41	−11	−11	56.19	51.96	−57	+5
19	58.95	42.71	−33	−11	55.66	52.24	−39	+8
20	{59.28 {59.58	43.01 43.31	−51 −61	−8} −3}	55.11	52.52	−14	+10
21	59.85	43.61	−61	+2	54.53	52.80	+13	+9
22	60.10	43.92	−49	+7	53.92	53.07	+36	+6
23	60.31	44.22	−27	+10	53.29	53.34	+49	+1
24	60.50	44.52	0	+10	52.63	53.61	+51	−4
25	60.66	44.82	+26	+8	51.95	53.87	+41	−8
26	60.80	45.13	+46	+4	51.24	54.13	+23	−10
27	60.90	45.43	+54	0	50.51	54.39	+2	−9
28	60.98	45.74	+51	−5	49.76	54.65	−16	−6
29	61.03	46.04	+37	−9	48.98	54.90	−29	−2
30	61.05	46.34	+17	−10	48.18	55.15	−32	+3
31	61.05	46.64	−4	−8	47.35	55.40	−27	+7
32	61.01	46.95	−22	−5	46.50	55.64	−15	+10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 11′ 20″	70.641	−70.634	−89° 11′ 30″	70.884	−70.877	−89° 11′ 50″	71.374	−71.367
30	70.884	−70.877	40	71.128	−71.121	60	71.622	−71.615

$\alpha_{1930.0} = 19^h\ 47^m\ 31^s.25$ $\delta_{1930.0} = -89°\ 11'\ 40''.81$

Obere Kulmination Greenwich

Sh) σ Octantis $5^m.48$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$19^h\,49^m$	−89° 11′	in 0.01^s $0.01''$	$19^h\,48^m$	−89° 12′	in 0.01^s $0.01''$	$19^h\,47^m$	−89° 11′	in 0.01^s $0.01''$	$19^h\,47^m$	−89° 11′	in 0.01^s $0.01''$
1	46.50	55.64	−15 +10	71.84	0.92	+28 + 9	87.06	61.04	+38 − 5	50.97	55.66	− 9 −11
2	45.62	55.88	+ 1 +11	70.45	1.02	+40 + 6	85.65	60.94	+24 − 8	50.06	55.40	−30 −10
3	44.72	56.12	+17 +10	69.05	1.11	+45 + 2	84.25	60.84	+ 6 −11	49.18	55.14	−47 − 7
4	43.80	56.35	+32 + 8	67.65	1.19	+42 − 2	82.87	60.73	−16 −11	48.32	54.88	−57 − 2
5	42.86	56.58	+41 + 4	66.24	1.27	+33 − 7	81.49	60.62	−36 − 9	47.49	54.61	−57 + 2
6	41.90	56.81	+44 0	64.82	1.34	+17 − 9	80.12	60.50	−51 − 5	46.68	54.33	−45 + 7
7	40.91	57.03	+39 − 4	63.39	1.41	− 3 −11	78.76	60.37	−57 − 1	45.90	54.05	−24 +10
8	39.90	57.25	+27 − 8	61.96	1.47	−24 −10	77.42	60.24	−53 + 4	45.14	53.77	+ 1 +10
9	38.87	57.46	+ 9 −10	60.52	1.52	−44 − 8	76.09	60.10	−38 + 8	44.41	53.48	+26 + 8
10	37.83	57.67	−12 −11	59.07	1.57	−56 − 4	74.77	59.96	−15 +10	43.70	53.19	+44 + 4
11	36.76	57.87	−34 −10	57.62	1.61	−58 + 1	73.46	59.81	+10 +10	43.02	52.89	+52 − 1
12	35.67	58.07	−52 − 6	56.16	1.64	−50 + 6	72.17	59.65	+33 + 7	42.37	52.59	+48 − 6
13	34.56	58.26	−61 − 2	54.70	1.67	−32 + 9	70.89	59.49	+46 + 2	41.74	52.29	+33 − 9
14	33.44	58.45	−59 + 3	53.24	1.69	− 8 +10	69.63	59.32	+49 − 3	41.14	51.99	+11 −10
15	32.29	58.64	−46 + 7	51.77	1.71	+17 + 8	68.38	59.15	+40 − 8	40.57	51.68	−11 − 9
16	31.13	58.82	−25 +10	50.31	1.72	+37 + 5	67.15	58.97	+22 −10	40.02	51.37	−29 − 6
17	29.95	59.00	+ 1 +10	48.84	1.73	+47 0	65.93	58.78	0 −10	39.50	51.06	−38 − 1
18	28.75	59.17	+25 + 7	47.37	1.73	+45 − 5	64.74	58.59	−20 − 8	39.02	50.74	−37 + 4
19	27.54	59.34	+43 + 3	45.90	1.72	+33 − 9	63.56	58.40	−34 − 4	38.56	50.42	−27 + 8
20	26.31	59.50	+49 − 2	44.44	1.70	+13 −10	62.39	58.20	−39 + 1	38.12	50.10	−11 +11
21	25.06	59.65	+43 − 7	42.97	1.68	− 7 − 9	61.25	57.99	−34 + 6	37.72	49.77	+ 9 +11
22	23.80	59.80	+28 −10	41.50	1.65	−25 − 6	60.13	57.78	−21 + 9	37.35	49.45	+25 + 9
23	22.52	59.95	+ 8 −10	40.04	1.62	−35 − 2	59.03	57.57	− 3 +11	37.00	49.12	+38 + 6
24	21.23	60.09	−12 − 8	38.58	1.58	−36 + 3	57.94	57.35	+15 +10	36.69	48.79	+44 + 2
25	19.93	60.22	−27 − 4	37.13	1.54	−27 + 7	56.88	57.12	+31 + 8	36.40	48.45	+43 − 2
26	18.61	60.35	−33 + 1	35.67	1.49	−13 +10	55.84	56.89	+41 + 5	36.14	48.11	+34 − 6
27	17.28	60.48	−31 + 5	34.22	1.43	+ 5 +11	54.82	56.65	+44 0	35.91	47.77	+18 − 9
28	15.93	60.60	−20 + 9	32.78	1.36	+22 +10	53.83	56.41	+40 − 4	35.71	47.43	− 2 −11
29	14.58	60.71	− 5 +11	31.34	1.29	+36 + 7	52.85	56.17	+29 − 8	35.54	47.09	−24 −11
30	13.21	60.82	+12 +11	29.91	1.21	+43 + 3	51.90	55.92	+12 −10	35.40	46.75	−43 − 8
31	11.84	60.92	+28 + 9	28.48	1.13	+44 − 1	50.97	55.66	− 9 −11	35.28	46.40	−56 − 4
32				27.06	1.04	+38 − 5				35.20	46.06	−60 0

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 11′ 40″	71.128	−71.121	−89° 11′ 50″	71.374	−71.367	−89° 12′ 0″	71.622	−71.615
50	71.374	−71.367	60	71.622	−71 615	10	71.872	−71.865

$\alpha_{1930.0} = 19^h\ 47^m\ 31^s.25$ $\delta_{1930.0} = -89°\ 11'\ 40''.81$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Si) β Octantis $4^m.34$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$22^h 38^m$	—81° 45′	in 0.01s 0.01″	$22^h 38^m$	—81° 45′	in 0.01s 0.01″	$22^h 38^m$	—81° 44′	in 0.01s 0.01″	$22^h 38^m$	—81° 44′	in 0.01s 0.01″
1	57.67	21.91	−1 +8	55.44	12.94	+5 +1	55.28	62.63	+5 −2	57.21	51.17	−2 −12
2	57.57	21.69	+1 +8	55.40	12.59	+4 −4	*)55.31	62.25	+4 −6	57.30	50.82	−4 −11
3	57.47	21.46	+3 +6	55.37	12.24	+3 −8	55.34	61.87	+2 −10	57.40	50.48	−6 −7
4	57.37	21.23	+4 +3	55.34	11.89	+1 −11	55.38	61.49	0 −12	57.50	50.14	−6 −3
5	57.28	20.99	+4 −1	55.31	11.54	−2 −13	55.41	61.11	−3 −12	57.60	49.81	−5 +2
6	57.18	20.74	+4 −6	55.28	11.18	−4 −12	55.45	60.73	−5 −10	57.71	49.48	−3 +7
7	57.09	20.49	+2 −10	55.26	10.83	−6 −9	55.49	60.35	−6 −6	57.81	49.15	0 +9
8	57.00	20.24	0 −12	55.23	10.47	−6 −4	55.53	59.97	−6 −1	57.92	48.82	+3 +9
9	56.91	19.98	−3 −13	55.21	10.11	−6 +1	55.58	59.59	−5 +4	58.03	48.49	+5 +7
10	56.82	19.72	−5 −11	55.19	9.75	−4 +6	55.62	59.21	−2 +8	58.14	48.17	+6 +4
11	56.74	19.45	−6 −7	55.17	9.38	−1 +9	55.67	58.83	+1 +10	58.25	47.85	+6 −1
12	56.66	19.18	−6 −2	55.16	9.02	+2 +10	55.72	58.45	+3 +9	58.36	47.53	+4 −5
13	56.58	18.90	−5 +4	55.15	8.65	+4 +9	55.77	58.07	+5 +6	58.48	47.22	+2 −7
14	56.50	18.62	−2 +8	55.14	8.28	+6 +5	55.83	57.70	+6 +2	58.60	46.91	0 −8
15	56.42	18.34	+1 +11	55.14	7.91	+6 +1	55.89	57.32	+5 −2	58.72	46.60	−3 −6
16	56.35	18.05	+3 +11	55.13	7.54	+5 −3	55.95	56.95	+4 −5	58.84	46.29	−4 −3
17	56.27	17.76	+5 +8	55.13	7.16	+3 −5	56.02	56.58	+2 −7	58.96	45.99	−4 0
18	56.20	17.46	+6 +4	55.13	6.79	0 −7	56.08	56.20	−1 −7	59.08	45.69	−4 +4
19	56.13	17.16	+6 0	55.13	6.42	−2 −6	56.15	55.83	−3 −5	59.21	45.40	−3 +7
20	56.06	16.85	+4 −4	55.13	6.04	−4 −4	56.22	55.46	−4 −1	59.34	45.11	−1 +9
21	56.00	16.54	+2 −6	55.14	5.66	−4 0	56.29	55.09	−4 +2	59.47	44.82	+1 +9
22	55.94	16.23	0 −6	55.15	5.28	−4 +3	56.36	54.73	−4 +5	59.60	44.53	+2 +8
23	55.88	15.91	−3 −5	55.16	4.91	−3 +6	56.43	54.36	−2 +8	59.73	44.25	+4 +6
24	55.82	15.59	−4 −2	55.18	4.53	−2 +8	56.51	54.00	0 +9	59.87	43.98	+5 +2
25	55.77	15.27	−4 +1	55.20	4.15	0 +9	56.60	53.64	+1 +9	60.00	43.71	+4 −2
26	55.72	14.94	−4 +4	55.22	3.77	+2 +8	56.68	53.28	+3 +7	60.14	43.44	+3 −7
27	55.67	14.62	−3 +7	55.24	3.39	+4 +6	56.76	52.93	+4 +4	60.27	43.17	+1 −10
28	55.62	14.29	−1 +8	55.26	3.01	+5 +3	56.85	52.57	+5 0	60.41	42.91	−1 −12
29	55.57	13.96	+1 +9	55.28	2.63	+5 −2	56.94	52.22	+4 −4	60.55	42.66	−3 −11
30	55.52	13.62	+3 +7				57.02	51.87	+3 −8	60.69	42.41	−5 −9
31	55.48	13.28	+4 +5				57.11	51.52	+1 −11	60.83	42.16	−6 −4
32	55.44	12.94	+5 +1				57.21	51.17	−2 −12			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 44′ 40″	6.964	−6.892	−81° 45′ 0″	6.969	−6.897	−81° 45′ 20″	6.974	−6.902
50	6.967	−6.895	10	6.971	−6.899	30	6.976	−6.904

$\alpha_{1930.0} = 22^h\ 39^m\ 0^s.80$ $\delta_{1930.0} = -81°\ 44'\ 58''.14$

*) Tag der doppelten unteren Kulmination: März 2

Obere Kulmination Greenwich

Si) β Octantis $4^{m}.34$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in	
	22h 39m	−81° 44′	0.01s	0.01″	22h 39m	−81° 44′	0.01s	0.01″	22h 39m	−81° 44′	0.01s	0.01″	22h 39m	−81° 44′	0.01s	0.01″
1	0.83	42.16	−6	−4	5.72	36.78	+1	+11	10.61	36.33	+6	+6	14.67	40.75	+1	−7
2	0.97	41.92	−6	+1	5.89	36.69	+3	+10	10.77	36.40	+6	+1	14.77	40.96	−1	−7
3	1.12	41.68	−4	+6	6.05	36.60	+5	+8	10.92	36.48	+5	−3	14.87	41.18	−3	−4
4	1.27	41.44	−1	+9	6.22	36.52	+6	+4	11.07	36.56	+3	−6	14.97	41.40	−4	−1
5	1.41	41.21	+2	+10	6.39	36.44	+6	−1	11.22	36.64	0	−7	15.06	41.63	−4	+3
6	1.56	40.98	+4	+9	6.56	36.37	+4	−5	11.37	36.73	−2	−6	15.15	41.86	−3	+6
7	1.71	40.76	+6	+6	6.72	36.30	+2	−7	11.51	36.83	−4	−4	15.24	42.09	−2	+9
8	1.86	40.54	+6	+1	6.89	36.24	−1	−8	11.66	36.93	−5	0	15.33	42.33	0	+10
9	2.01	40.33	+5	−3	7.05	36.18	−3	−6	11.80	37.03	−4	+4	15.41	42.57	+2	+9
10	2.16	40.12	+3	−6	7.22	36.13	−4	−3	11.94	37.14	−3	+7	15.49	42.81	+3	+7
11	2.32	39.92	0	−8	7.39	36.09	−5	+1	12.09	37.25	−1	+9	15.57	43.06	+4	+4
12	2.47	39.72	−2	−7	7.55	36.05	−4	+5	12.23	37.37	+1	+9	15.65	43.31	+5	0
13	2.63	39.53	−4	−5	7.72	36.02	−3	+7	12.36	37.50	+2	+8	15.73	43.56	+4	−5
14	2.79	39.34	−5	−1	7.88	35.99	−1	+9	12.50	37.63	+4	+6	15.80	43.81	+2	−9
15	2.94	39.15	−4	+2	8.05	35.97	+1	+9	12.64	37.76	+5	+2	15.87	44.07	0	−12
16	3.10	38.97	−4	+6	8.21	35.95	+3	+7	12.77	37.90	+5	−2	15.94	44.33	−2	−13
17	3.26	38.80	−2	+8	8.38	35.94	+4	+4	12.90	38.05	+4	−7	16.00	44.59	−5	−12
18	3.42	38.63	0	+9	8.54	35.93	+5	0	13.04	38.20	+2	−10	16.06	44.85	−6	−8
19	3.58	38.46	+2	+9	8.71	35.93	+4	−4	13.17	38.35	−1	−13	16.12	45.12	−7	−4
20	3.74	38.30	+3	+6	8.87	35.93	+3	−8	13.29	38.51	−3	−13	16.18	45.39	−6	+1
21	3.91	38.15	+4	+3	9.04	35.94	+1	−11	13.42	38.67	−5	−11	16.23	45.66	−4	+6
22	4.07	38.00	+5	−1	9.20	35.95	−2	−13	13.54	38.84	−6	−7	16.28	45.94	−1	+9
23	4.24	37.86	+4	−5	9.36	35.97	−4	−12	13.66	39.01	−6	−1	16.33	46.21	+2	+9
24	4.40	37.72	+2	−9	9.52	36.00	−6	−9	13.78	39.19	−5	+4	16.38	46.49	+5	+7
25	4.56	37.58	0	−12	9.67	36.03	−6	−4	13.90	39.37	−2	+8	16.42	46.77	+6	+4
26	4.73	37.45	−2	−12	9.83	36.07	−6	+1	14.02	39.56	+1	+10	16.46	47.05	+6	0
27	4.89	37.33	−5	−10	9.99	36.11	−4	+6	14.13	39.75	+4	+10	16.50	47.33	+4	−4
28	5.05	37.21	−6	−6	10.14	36.16	−1	+10	14.24	39.94	+6	+7	16.54	47.62	+2	−6
29	5.22	37.09	−6	−1	10.30	36.21	+2	+11	14.35	40.14	+6	+3	16.57	47.91	0	−7
30	5.38	36.98	−5	+4	10.45	36.27	+5	+9	14.46	40.34	+6	−1	16.60	48.19	−3	−5
31	5.55	36.88	−2	+8	10.61	36.33	+6	+6	14.57	40.54	+4	−5	16.63	48.48	−4	−2
32	5.72	36.78	+1	+11					14.67	40.75	+1	−7	16.65 16.67	48.77 49.06	−4 −4	+2 +5

δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 44′ 30″	6.962	−6.890	−81° 44′ 40″	6.964	−6.892
40	6.964	−6.892	50	6.967	−6.895

$\alpha_{1930.0} = 22^{h}\ 39^{m}\ 0^{s}.80$ $\delta_{1930.0} = -81°\ 44'\ 58''.14$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Si) β Octantis $4^m.34$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$22^h\ 39^m$	−81° 44′	in $0^s.01$ $0''.01$	$22^h\ 39^m$	−81° 44′	in $0^s.01$ $0''.01$	$22^h\ 39^m$	−81° 45′	in $0^s.01$ $0''.01$	$22^h\ 39^m$	−81° 45′	in $0^s.01$ $0''.01$
1	^{s}16.65 16.67	$''$48.77 49.06	−4 +2 −4 +5	^{s}16.02	$''$57.72	+1 +10	^{s}13.04	$''$4.31	+5 +1	^{s}9.03	$''$5.94	+2 −10
2	16.69	49.36	−2 +8	15.96	57.99	+3 +10	12.92	4.45	+4 −3	8.89	5.90	−1 −11
3	16.71	49.65	−1 +10	15.89	58.25	+4 +7	12.80	4.59	+3 −7	8.76	5.85	−3 −11
4	16.72	49.94	+1 +10	15.82	58.51	+5 +4	12.67	4.72	+1 −10	8.62	5.80	−5 −9
5	16.73	50.24	+3 +9	15.75	58.77	+5 −1	12.55	4.84	−2 −12	8.49	5.74	−6 −6
6	16.74	50.53	+4 +6	15.68	59.03	+4 −5	12.42	4.96	−4 −11	8.35	5.67	−6 −1
7	16.74	50.83	+5 +2	15.60	59.28	+2 −9	12.29	5.07	−6 −8	8.21	5.60	−5 +4
8	16.74	51.12	+4 −2	15.52	59.53	0 −11	12.16	5.18	−6 −4	8.08	5.52	−2 +8
9	16.74	51.42	+3 −7	15.44	59.78	−3 −12	12.03	5.28	−6 +1	7.95	5.43	+1 +10
10	16.74	51.71	+1 −10	15.36	60.02	−5 −10	11.90	5.37	−4 +6	7.81	5.34	+4 +9
11	16.73	52.01	−1 −12	15.27	60.26	−6 −7	11.77	5.46	−1 +9	7.68	5.24	+5 +6
12	16.72	52.30	−4 −12	15.18	60.50	−6 −2	11.64	5.55	+2 +9	7.55	5.14	+6 +2
13	16.71	52.59	−6 −10	15.09	60.73	−5 +3	11.50	5.63	+4 +8	7.42	5.03	+5 −3
14	16.69	52.89	−7 −6	15.00	60.96	−3 +7	11.36	5.70	+6 +4	7.29	4.91	+3 −6
15	16.67	53.18	−6 −1	14.91	61.18	0 +9	11.23	5.76	+6 0	7.17	4.79	+1 −8
16	16.65	53.48	−5 +4	14.82	61.40	+3 +8	11.09	5.82	+4 −5	7.04	4.66	−2 −8
17	16.63	53.77	−2 +8	14.72	61.62	+5 +6	10.95	5.87	+2 −8	6.92	4.52	−4 −6
18	16.60	54.06	+1 +9	14.62	61.83	+6 +2	10.82	5.91	0 −9	6.79	4.38	−5 −2
19	16.57	54.35	+4 +8	14.52	62.04	+5 −2	10.68	5.95	−3 −7	6.67	4.23	−5 +3
20	16.54	54.64	+5 +5	14.42	62.24	+4 −6	10.55	5.98	−4 −4	6.55	4.08	−4 +7
21	16.51	54.93	+6 +1	14.31	62.44	+1 −8	10.41	6.01	−5 0	6.43	3.92	−2 +9
22	16.47	55.21	+5 −3	14.20	62.63	−1 −8	10.27	6.03	−4 +4	6.31	3.76	0 +10
23	16.43	55.50	+3 −7	14.09	62.82	−3 −6	10.13	6.05	−3 +8	6.19	3.59	+2 +10
24	16.39	55.78	0 −8	13.98	63.01	−4 −2	10.00	6.06	−1 +10	6.07	3.41	+4 +7
25	16.34	56.07	−2 −7	13.87	63.19	−4 +2	9.86	6.06	+1 +10	5.96	3.23	+5 +4
26	16.29	56.35	−4 −4	13.76	63.37	−4 +6	9.72	6.06	+3 +9	5.84	3.04	+5 0
27	16.24	56.63	−4 0	13.64	63.54	−2 +9	9.58	6.05	+4 +6	5.72	2.85	+4 −5
28	16.19	56.91	−4 +4	13.53	63.70	0 +11	9.44	6.03	+5 +2	5.61	2.65	+2 −9
29	16.14	57.18	−3 +8	13.41	63.86	+2 +10	9.31	6.00	+5 −2	5.51	2.44	0 −11
30	16.08	57.45	−1 +10	13.29	64.02	+3 +8	9.17	5.97	+4 −6	5.40	2.23	−2 −12
31	16.02	57.72	+1 +10	13.17	64.17	+5 +5	9.03	5.94	+2 −10	5.29	2.02	−5 −11
32				13.04	64.31	+5 +1				5.19	1.80	−6 −8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 44′ 40″	6.964	−6.892	−81° 44′ 50″	6.967	−6.895	−81° 45′ 0″	6.969	−6.897
50	6.967	−6.895	60	6.969	−6.897	10	6.971	−6.899

$\alpha_{1930.0} = 22^h\ 39^m\ 0^s.80$ $\delta_{1930.0} = -81°\ 44'\ 58''.14$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sk) τ Octantis $5^{m}.56$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder in		Februar AR.	Februar Dekl.	Februar ☾ Glieder in		März AR.	März Dekl.	März ☾ Glieder in		April AR.	April Dekl.	April ☾ Glieder in	
	$23^{h}18^{m}$	−87° 52′	$0^{s}.01$	0″.01	$23^{h}17^{m}$	−87° 52′	$0^{s}.01$	0″.01	$23^{h}17^{m}$	−87° 51′	$0^{s}.01$	0″.01	$23^{h}18^{m}$	−87° 51′	$0^{s}.01$	0″.01
1	$14^{s}.43$	26″.46	−8	+8	$62^{s}.05$	18″.07	+16	+2	$57^{s}.58$	67″.72	+18	0	$0^{s}.82$	55″.66	+1	−12
2	13.92	26.26	−1	+8	61.77	17.73	+18	−2	57.55	67.32	+18	−4	1.07	55.29	−8	−11
3	13.43	26.06	+7	+7	61.50	17.39	+16	−7	57.53	66.93	+13	−8	1.32	54.92	−16	−9
4	12.95	25.85	+13	+4	61.24	17.04	+11	−11	57.52	66.53	+6	−11	1.58	54.55	−20	−4
5	12.47	25.64	+17	0	60.99	16.69	+2	−13	57.52	66.14	−3	−12	1.84	54.19	−21	+1
6	12.00	25.42	+18	−4	60.75	16.34	−7	−13	57.53	65.74	−12	−11	2.11	53.83	−15	+5
7	11.53	25.20	+14	−9	60.51	15.99	−15	−11	57.54	65.35	−19	−8	2.39	53.47	−7	+9
8	11.07	24.97	+8	−12	60.28	15.64	−20	−6	57.57	64.96	−21	−3	2.68	53.11	+3	+10
9	10.61	24.73	−1	−13	60.06	15.28	−21	−1	57.61	64.56	−19	+2	2.98	52.75	+12	+9
10	10.16	24.49	−10	−12	59.85	14.92	−16	+4	57.65	64.17	−13	+7	3.28	52.39	+19	+5
11	9.72	24.25	−18	−9	59.65	14.56	−9	+8	57.70	63.77	−3	+9	3.59	52.04	+21	+1
12	9.28	24.00	−21	−4	59.46	14.19	+1	+10	*)57.76	63.38	+7	+10	3.91	51.69	+18	−3
13	8.85	23.74	−20	+2	59.28	13.82	+11	+10	57.83	62.99	+15	+8	4.24	51.35	+12	−6
14	8.43	23.48	−14	+7	59.10	13.45	+18	+7	57.91	62.60	+20	+4	4.58	51.01	+3	−7
15	8.01	23.22	−5	+10	58.94	13.08	+21	+3	58.00	62.20	+20	0	4.92	50.67	−5	−7
16	7.60	22.95	+5	+11	58.78	12.71	+19	−1	58.09	61.81	+16	−4	5.27	50.33	−12	−4
17	7.20	22.68	+14	+9	58.64	12.34	+14	−4	58.20	61.42	+9	−6	5.62	50.00	−16	−1
18	6.80	22.40	+20	+6	58.50	11.96	+6	−6	58.31	61.03	0	−7	5.98	49.67	−17	+2
19	6.41	22.12	+21	+2	58.37	11.58	−3	−6	58.44	60.64	−8	−6	6.35	49.34	−15	+6
20	6.03	21.83	+17	−2	58.25	11.20	−10	−4	58.57	60.25	−14	−3	6.73	49.01	−10	+8
21	5.65	21.54	+11	−5	58.14	10.82	−15	−1	58.71	59.86	−17	+1	7.11	48.69	−3	+9
22	5.28	21.24	+2	−6	58.04	10.43	−17	+2	58.86	59.47	−17	+4	7.50	48.37	+4	+8
23	4.91	20.94	−6	−6	57.95	10.05	−16	+5	59.02	59.08	−13	+7	7.90	48.06	+10	+6
24	4.56	20.64	−12	−4	57.86	9.66	−12	+7	59.19	58.70	−8	+9	8.31	47.75	+15	+3
25	4.22	20.33	−16	−1	57.79	9.27	−5	+9	59.37	58.32	−1	+9	8.72	47.44	+18	−1
26	3.89	20.02	−17	+3	57.72	8.89	+2	+8	59.55	57.93	+6	+8	9.13	47.13	+17	−5
27	3.56	19.70	−14	+6	57.67	8.50	+9	+7	59.74	57.55	+13	+5	9.55	46.83	+12	−9
28	3.24	19.38	−10	+8	57.62	8.11	+14	+4	59.94	57.17	+17	+2	9.98	46.53	+4	−11
29	2.93	19.06	−3	+8	57.58	7.72	+18	0	60.15	56.79	+18	−2	10.41	46.24	−5	−12
30	2.63	18.73	+4	+8					60.36	56.41	+16	−7	10.85	45.95	−13	−10
31	2.33	18.40	+11	+5					60.59	56.04	+10	−10	11.30	45.66	−19	−6
32	2.05	18.07	+16	+2					60.82	55.66	+1	−12				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 51′ 40″	26.794	−26.775	−87° 52′ 0″	26.864	−26.845	−87° 52′ 20″	26.934	−26.915
50	26.829	−26.810	10	26.899	−26.880	30	26.969	−26.950

$\alpha_{1930.0} = 23^{h}\ 18^{m}\ 17^{s}.27$ $\delta_{1930.0} = -87^{\circ}\ 52'\ 2''.11$

*) Tag der doppelten unteren Kulmination: März 12

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sk) τ Octantis $5^m.56$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$23^h 18^m$	—87° 51′	in 0.01^s | $0.01''$	$23^h 18^m$	—87° 51′	in 0.01^s | $0.01''$	$23^h 18^m$	—87° 51′	in 0.01^s | $0.01''$	$23^h 19^m$	—87° 51′	in 0.01^s | $0.01''$
1	$11^s.30$	$45''.66$	—19 — 6	$27^s.48$	$39''.00$	— 5 +10	$45^s.12$	$37''.32$	+18 + 7	$1^s.14$	$40''.77$	+ 9 — 6
2	11.75	45.38	—21 — 1	28.06	38.87	+ 5 +11	45.70	37.35	+21 + 3	1.57	40.96	0 — 6
3	12.21	45.10	—18 + 4	28.64	38.74	+14 + 9	46.27	37.39	+20 — 2	1.99	41.15	— 8 — 5
4	12.68	44.83	—11 + 8	29.22	38.61	+20 + 5	46.84	37.43	+14 — 5	2.40	41.35	—15 — 2
5	13.15	44.56	— 1 +10	29.80	38.49	+21 + 1	47.40	37.48	+ 5 — 7	2.81	41.55	—18 + 1
6	13.62	44.29	+ 9 +10	30.39	38.38	+17 — 3	47.97	37.53	— 4 — 7	3.21	41.76	—17 + 5
7	14.10	44.03	+17 + 7	30.97	38.27	+10 — 6	48.53	37.59	—11 — 5	3.60	41.97	—13 + 8
8	14.59	43.77	+20 + 3	31.56	38.16	+ 1 — 7	49.09	37.65	—16 — 2	3.98	42.19	— 7 + 9
9	15.08	43.52	+20 — 2	32.15	38.06	— 7 — 6	49.65	37.72	—18 + 2	4.36	42.41	0 + 9
10	15.57	43.27	+15 — 5	32.74	37.97	—14 — 4	50.20	37.80	—16 + 5	4.73	42.63	+ 8 + 8
11	16.07	43.03	+ 7 — 7	33.33	37.88	—17 0	50.75	37.88	—11 + 8	5.09	42.86	+13 + 5
12	16.57	42.79	— 2 — 7	33.92	37.80	—17 + 3	51.29	37.97	— 4 + 9	5.44	43.09	+17 + 1
13	17.08	42.56	—10 — 6	34.52	37.72	—14 + 6	51.83	38.06	+ 3 + 9	5.78	43.33	+18 — 3
14	17.59	42.33	—15 — 3	35.11	37.65	— 9 + 8	52.37	38.16	+10 + 7	6.12	43.57	+15 — 7
15	18.11	42.10	—18 + 1	35.70	37.59	— 1 + 9	52.90	38.26	+15 + 3	6.44	43.81	+ 9 —11
16	18.63	41.88	—17 + 4	36.29	37.53	+ 6 + 8	53.43	38.37	+18 — 1	6.76	44.05	0 —13
17	19.16	41.66	—12 + 7	36.89	37.48	+12 + 5	53.95	38.48	+17 — 5	7.07	44.30	— 9 —12
18	19.69	41.45	— 6 + 9	37.48	37.43	+16 + 2	54.47	38.60	+13 — 9	7.37	44.55	—17 —10
19	20.23	41.24	+ 1 + 9	38.08	37.39	+18 — 3	54.98	38.72	+ 5 —12	7.67	44.81	—21 — 6
20	20.77	41.04	+ 8 + 7	38.67	37.35	+16 — 7	55.49	38.85	— 4 —13	7.95	45.07	—21 — 1
21	21.31	40.84	+14 + 4	39.26	37.32	+10 —10	55.99	38.98	—12 —12	8.23	45.33	—17 + 4
22	21.86	40.65	+17 0	39.85	37.29	+ 2 —12	56.49	39.12	—19 — 8	8.49	45.59	— 8 + 8
23	22.41	40.46	+17 — 4	40.44	37.27	— 7 —12	56.98	39.26	—22 — 3	8.74	45.86	+ 3 + 9
24	22.96	40.28	+14 — 8	41.03	37.26	—15 —10	57.47	39.41	—20 + 2	8.99	46.13	+12 + 9
25	23.52	40.10	+ 7 —11	41.62	37.25	—20 — 6	57.95	39.56	—13 + 7	9.22	46.40	+19 + 6
26	24.08	39.93	— 1 —12	42.21	37.25	—21 0	58.42	39.72	— 3 +10	9.44	46.68	+21 + 2
27	24.64	39.76	—10 —11	42.79	37.25	—17 + 5	58.89	39.88	+ 7 +10	9.66	46.96	+19 — 2
28	25.20	39.60	—17 — 8	43.37	37.26	— 9 + 9	59.35	40.05	+15 + 8	9.87	47.24	+12 — 5
29	25.77	39.44	—20 — 3	43.96	37.28	+ 1 +11	59.81	40.22	+21 + 5	10.06	47.52	+ 3 — 7
30	26.34	39.29	—20 + 2	44.54	37.30	+11 +10	60.26	40.40	+21 0	10.24	47.80	— 6 — 6
31	26.91	39.14	—14 + 7	45.12	37.32	+18 + 7	60.70	40.58	+17 — 3	10.42	48.09	—13 — 3
32	27.48	39.00	— 5 +10				61.14	40.77	+ 9 — 6	10.58	48.38	—17 0

δ	sec δ	tg δ	δ	sec δ	tg δ
—87° 51′ 30″	26.759	—26.740	—87° 51′ 40″	26.794	—26.775
40	26.794	—26.775	50	26.829	—26.810

$\alpha_{1930.0} = 23^h\ 18^m\ 17^s.27$ $\delta_{1930.0} = -87°\ 52'\ 2''.11$

Scheinbare Sternörter 1930

Obere Kulmination Greenwich

Sk) τ Octantis $5^m.56$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$23^h 19^m$	−87° 51′	in 0.01s 0.01″	$23^h 19^m$	−87° 51′	in 0.01s 0.01″	$23^h 18^m$	−87° 52′	in 0.01s 0.01″	$23^h 18^m$	−87° 52′	in 0.01s 0.01″
1	10.58	48.38	−17 0	10.41	57.65	−5 +10	60.48	5.24	+17 +3	44.75	8.11	+12 −8
2	10.73	48.67	−18 +4	10.23	57.94	+3 +10	60.03	5.42	+18 −1	44.18	8.11	+5 −11
3	10.88	48.96	−15 +7	10.05	58.23	+10 +8	59.57	5.59	+16 −6	43.61	8.10	−4 −12
4	11.01	49.25	−9 +9	9.86	58.52	+15 +5	59.10	5.76	+10 −9	43.04	8.09	−12 −10
5	11.13	49.54	−2 +10	9.65	58.80	+18 +1	58.63	5.92	+2 −11	42.47	8.07	−18 −7
6	11.25	49.84	+5 +9	9.43	59.08	+17 −3	58.15	6.08	−7 −12	41.89	8.04	−21 −3
7	11.36	50.14	+12 +7	9.20	59.36	+14 −7	57.66	6.23	−15 −10	41.32	8.01	−19 +3
8	11.45	50.44	+16 +3	8.96	59.63	+7 −11	57.17	6.38	−20 −6	40.75	7.97	−13 +7
9	11.53	50.74	+18 −1	8.72	59.90	−2 −12	56.68	6.52	−21 −1	40.18	7.92	−4 +10
10	11.60	51.04	+16 −5	8.46	60.17	−10 −11	56.18	6.66	−17 +4	39.61	7.87	+7 +10
11	11.66 11.71	51.34 51.64	+11 −9 +4 −12	8.19	60.44	−17 −9	55.67	6.79	−10 +8	39.04	7.81	+15 +8
12	11.75	51.95	−5 −12	7.91	60.71	−21 −4	55.16	6.91	0 +10	38.47	7.74	+21 +4
13	11.78	52.25	−14 −11	7.63	60.97	−20 +1	54.64	7.03	+10 +9	37.91	7.67	+21 −1
14	11.79	52.55	−20 −7	7.34	61.23	−15 +5	54.12	7.14	+17 +6	37.35	7.59	+16 −5
15	11.79	52.86	−22 −3	7.03	61.49	−6 +8	53.59	7.25	+21 +1	36.78	7.50	+8 −7
16	11.79	53.16	−19 +2	6.71	61.74	+4 +9	53.06	7.35	+19 −3	36.22	7.41	−1 −8
17	11.78	53.46	−12 +6	6.38	61.99	+13 +8	52.53	7.44	+13 −7	35.66	7.31	−10 −6
18	11.75	53.76	−2 +9	6.04	62.24	+19 +4	51.99	7.53	+5 −8	35.10	7.20	−16 −3
19	11.71	54.06	+8 +9	5.70	62.48	+20 0	51.45	7.61	−5 −8	34.55	7.09	−18 +1
20	11.66	54.37	+16 +6	5.35	62.72	+17 −5	50.90	7.68	−12 −5	34.00	6.97	−17 +5
21	11.60	54.67	+21 +2	4.99	62.95	+10 −8	50.35	7.75	−17 −1	33.46	6.85	−12 +8
22	11.53	54.97	+20 −2	4.62	63.18	+1 −9	49.80	7.82	−18 +3	32.91	6.72	−5 +10
23	11.45	55.28	+15 −5	4.24	63.41	−8 −7	49.25	7.88	−15 +7	32.37	6.58	+2 +10
24	11.36	55.58	+7 −7	3.85	63.63	−14 −4	48.70	7.93	−10 +9	31.83	6.44	+9 +8
25	11.26	55.88	−2 −7	3.46	63.85	−17 0	48.14	7.97	−3 +10	31.29	6.29	+15 +5
26	11.14	56.18	−10 −5	3.06	64.06	−17 +5	47.58	8.01	+5 +9	30.76	6.14	+18 +1
27	11.02	56.48	−16 −1	2.65	64.27	−13 +8	47.02	8.04	+11 +7	30.23	5.98	+17 −3
28	10.88	56.78	−18 +3	2.23	64.47	−7 +10	46.45	8.07	+16 +4	29.71	5.81	+14 −7
29	10.74	57.07	−16 +6	1.80	64.67	0 +11	45.88	8.09	+18 0	29.19	5.64	+8 −11
30	10.58	57.36	−11 +9	1.37	64.87	+7 +10	45.32	8.10	+16 −5	28.68	5.46	0 −12
31	10.41	57.65	−5 +10	0.93	65.06	+13 +7	44.75	8.11	+12 −8	28.17	5.28	−9 −12
32				0.48	65.24	+17 +3				27.67	5.09	−17 −9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 51′ 40″	26.794	−26.775	−87° 51′ 50″	26.829	−26.810	−87° 52′ 0″	26.864	−26.845
50	26.829	−26.810	60	26.864	−26.845	10	26.899	−26.880

$\alpha_{1930.0} = 23^h\ 18^m\ 17^s.27$ $\delta_{1930.0} = -87°\ 52'\ 2''.11$

Polnahe Sterne 1930

Scheinbare Koordinaten für 12^{h} Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^{\mathrm{m}}.56$		BD +89° 3 Gr. $9^{\mathrm{m}}.06$		BD +89° 37 Gr. $10^{\mathrm{m}}.06$		CPD −89° 38 Gr. $9^{\mathrm{m}}.5$		Kurzperiod. Mondgl.*)	
1930	x	y	x	y	x	y	x	y	in 0.″01	
Jan. 0	−95.″12	+69.″76	+106.″17	+853.″99	−877.″91	−352.″76	−251.″97	−303.″79	− 4	+ 9
1	95.14	69.41	106.15	853.65	877.93	353.10	251.83	304.11	− 6	+ 7
2	95.15	69.07	106.14	853.32	877.94	353.45	251.68	304.42	− 7	+ 4
3	95.16	68.73	106.13	852.98	877.95	353.79	251.52	304.74	− 7	0
4	95.16	68.39	106.13	852.64	877.95	354.13	251.36	305.05	− 6	− 4
5	−95.15	+68.05	+106.14	+852.30	−877.94	−354.47	−251.20	−305.36	− 3	− 8
6	95.13	67.71	106.16	851.96	877.92	354.81	251.03	305.67	0	−10
7	95.11	67.37	106.18	851.62	877.90	355.15	250.86	305.98	+ 5	−10
8	95.08	67.04	106.21	851.29	877.87	355.49	250.68	306.28	+ 9	− 9
9	95.05	66.71	106.24	850.96	877.84	355.82	250.49	306.58	+12	− 5
10	−95.01	+66.38	+106.28	+850.63	−877.80	−356.15	−250.30	−306.88	+13	0
11	94.96	66.05	106.33	850.30	877.75	356.48	250.10	307.17	+11	+ 5
12	94.90	65.72	106.39	849.97	877.69	356.81	249.90	307.46	+ 8	+ 9
13	94.84	65.39	106.45	849.64	877.63	357.14	249.69	307.75	+ 2	+11
14	94.77	65.07	106.52	849.31	877.56	357.47	249.48	308.04	− 3	+10
15	−94.69	+64.75	+106.60	+848.99	−877.48	−357.80	−249.26	−308.33	− 8	+ 7
16	94.61	64.43	106.68	848.67	877.40	358.12	249.03	308.61	−11	+ 2
17	94.53	64.11	106.76	848.35	877.32	358.44	248.80	308.89	−11	− 3
18	94.44	63.79	106.85	848.03	877.23	358.76	248.57	309.16	− 9	− 7
19	94.34	63.47	106.95	847.72	877.13	359.07	248.33	309.43	− 6	−10
20	−94.24	+63.16	+107.05	+847.41	−877.03	−359.38	−248.08	−309.70	− 2	−10
21	94.13	62.85	107.16	847.10	876.92	359.69	247.83	309.97	+ 2	− 9
22	94.01	62.54	107.28	846.79	876.80	360.00	247.58	310.23	+ 5	− 5
23	93.89	62.23	107.40	846.48	876.68	360.31	247.32	310.49	+ 6	0
24	93.76	61.93	107.53	846.18	876.55	360.61	247.05	310.74	+ 5	+ 4
25	−93.62	+61.63	+107.66	+845.88	−876.41	−360.91	−246.78	−310.99	+ 3	+ 7
26	93.48	61.33	107.80	845.59	876.27	361.21	246.51	311.24	0	+ 9
27	93.34	61.04	107.95	845.30	876.13	361.50	246.23	311.49	− 3	+10
28	93.19	60.75	108.10	845.01	875.98	361.79	245.95	311.73	− 5	+ 8
29	93.03	60.47	108.25	844.72	875.82	362.07	245.66	311.97	− 7	+ 5
30	−92.87	+60.18	+108.42	+844.44	−875.66	−362.35	−245.37	−312.20	− 8	+ 2
31	92.70	59.90	108.59	844.16	875.49	362.63	245.07	312.43	− 7	− 3
Febr. 1	92.52	59.63	108.76	843.89	875.31	362.91	244.77	312.66	− 5	− 6
2	92.34	59.36	108.94	843.62	875.13	363.18	244.46	312.88	− 2	− 9
3	92.15	59.09	109.12	843.35	874.94	363.45	244.15	313.10	+ 3	−10
4	−91.96	+58.83	+109.31	+843.09	−874.75	−363.71	−243.84	−313.31	+ 7	− 9
5	91.77	58.57	109.51	842.83	874.56	363.97	243.52	313.52	+11	− 6
6	−91.57	+58.32	+109.71	+842.58	−874.36	−364.23	−243.20	−313.73	+13	− 2
Mittl. Ort	−79.″03	+79.″32	+122.″22	+863.″57	−861.″80	−343.″23	−227.″61	−307.″46		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10^m.56		BD +89° 3 Gr. 9^m.06		BD +89° 37 Gr. 10^m.06		CPD −89° 38 Gr. 9^m.5		Kurzperiod. Mondgl.*)	
1930	*x*	*y*	*x*	*y*	*x*	*y*	*x*	*y*	in 0″.01	
Febr. 6	−91″.57	+58″.32	+109″.71	+842″.58	−874″.36	−364″.23	−243″.20	−313″.73	+13	− 2
7	91.36	58.07	109.91	842.33	874.15	364.48	242.88	313.93	+12	+ 3
8	91.15	57.82	110.12	842.09	873.94	364.73	242.55	314.13	+10	+ 8
9	90.94	57.58	110.34	841.85	873.73	364.97	242.22	314.32	+ 5	+10
10	90.72	57.34	110.56	841.61	873.51	365.21	241.89	314.51	0	+11
11	−90.49	+57.11	+110.78	+841.38	−873.28	−365.44	−241.55	−314.69	− 5	+ 9
12	90.26	56.88	111.01	841.15	873.05	365.67	241.21	314.87	− 9	+ 4
13	90.02	56.66	111.25	840.93	872.81	365.89	240.87	315.04	−10	− 1
14	89.78	56.45	111.49	840.72	872.57	366.11	240.52	315.21	− 9	− 6
15	89.54	56.24	111.73	840.51	872.33	366.32	240.17	315.37	− 7	− 9
16	−89.30	+56.03	+111.97	+840.30	−872.09	−366.52	−239.82	−315.53	− 3	−11
17	89.05	55.83	112.22	840.10	871.84	366.72	239.46	315.69	+ 1	−10
18	88.80	55.64	112.47	839.91	871.59	366.92	239.10	315.84	+ 4	− 6
19	88.54	55.45	112.73	839.72	871.33	367.11	238.74	315.99	+ 6	− 2
20	88.28	55.26	112.99	839.53	871.07	367.30	238.38	316.13	+ 6	+ 2
21	−88.02	+55.08	+113.25	+839.35	−870.81	−367.48	−238.01	−316.27	+ 4	+ 6
22	87.75	54.91	113.52	839.18	870.54	367.65	237.64	316.40	+ 1	+ 9
23	87.48	54.74	113.79	839.01	870.27	367.82	237.27	316.53	− 2	+10
24	87.21	54.57	114.06	838.84	870.00	367.99	236.90	316.66	− 5	+ 9
25	86.93	54.42	114.34	838.69	869.72	368.14	236.53	316.78	− 7	+ 7
26	−86.65	+54.27	+114.62	+838.54	−869.44	−368.29	−236.15	−316.89	− 8	+ 3
27	86.37	54.12	114.90	838.39	869.16	368.44	235.77	317.00	− 8	− 1
28	86.09	53.98	115.18	838.25	868.88	368.58	235.39	317.10	− 6	− 5
März 1	85.80	53.85	115.47	838.12	868.59	368.71	235.01	317.20	− 3	− 8
2	85.51	53.72	115.76	837.99	868.30	368.84	234.63	317.29	+ 1	−10
3	−85.22	+53.60	+116.05	+837.87	−868.01	−368.96	−234.24	−317.38	+ 5	−10
4	84.92	53.49	116.34	837.76	867.71	369.08	233.86	317.46	+ 9	− 8
5	84.62	53.38	116.64	837.65	867.41	369.19	233.47	317.54	+12	− 4
6	84.32	53.27	116.94	837.54	867.11	369.29	233.08	317.62	+12	+ 1
7	84.02	53.18	117.24	837.45	866.81	369.39	232.69	317.69	+11	+ 6
8	−83.72	+53.09	+117.54	+837.36	−866.51	−369.48	−232.30	−317.75	+ 7	+10
9	83.42	53.00	117.84	837.27	866.21	369.56	231.91	317.81	+ 2	+11
10	83.12	52.92	118.14	837.19	865.91	369.64	231.52	317.87	− 3	+10
11	82.82	52.85	118.44	837.12	865.61	369.72	231.13	317.92	− 7	+ 6
12	82.51	52.78	118.75	837.05	865.30	369.79	230.73	317.96	− 9	+ 1
13	−82.20	+52.72	+119.06	+836.99	−864.99	−369.85	−230.33	−318.00	− 9	− 4
14	81.89	52.67	119.37	836.94	864.68	369.90	229.94	318.03	− 7	− 8
15	−81.57	+52.62	+119.68	+836.89	−864.37	−369.95	−229.55	−318.06	− 4	−10
Mittl. Ort	−79″.03	+79″.32	+122″.22	+863″.57	−861″.80	−343″.23	−227″.61	−307″.46		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1930

Scheinbare Koordinaten für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.56m		BD +89° 3 Gr. 9.06m		BD +89° 37 Gr. 10.06m		CPD −89° 38 Gr. 9.5m		Kurzperiod. Mondgl.*)	
1930	x	y	x	y	x	y	x	y	in 0.01s	
März 15	−81.57	+52.62	+119.68	+836.89	−864.37	−369.95	−229.55	−318.06	− 4	−10
16	81.26	52.58	119.99	836.85	864.06	369.99	229.16	318.09	0	−10
17	80.95	52.55	120.30	836.82	863.75	370.02	228.76	318.11	+ 4	− 8
18	80.64	52.52	120.62	836.79	863.44	370.05	228.36	318.12	+ 6	− 4
19	80.33	52.49	120.93	836.77	863.13	370.08	227.96	318.13	+ 6	+ 1
20	−80.02	+52.47	+121.24	+836.75	−862.82	−370.10	−227.56	−318.14	+ 5	+ 5
21	79.71	52.45	121.55	836.74	862.51	370.11	227.16	318.14	+ 2	+ 8
22	79.40	52.45	121.86	836.74	862.19	370.11	226.76	318.13	− 1	+10
23	79.09	52.46	122.17	836.74	861.88	370.11	226.36	318.12	− 4	+10
	78.78	52.47	122.48	836.75	861.57	370.10	225.96	318.10	− 6	+ 8
24	−78.47	+52.49	+122.79	+836.77	−861.26	−370.08	−225.56	−318.08	− 8	+ 4
25	78.16	52.51	123.10	836.79	860.95	370.06	225.16	318.06	− 8	0
26	77.85	52.54	123.41	836.82	860.64	370.03	224.77	318.03	− 7	− 4
27	77.54	52.57	123.72	836.85	860.33	370.00	224.38	317.99	− 5	− 7
28	77.23	52.61	124.03	836.89	860.02	369.96	223.99	317.95	− 1	−10
29	−76.93	+52.66	+124.33	+836.94	−859.71	−369.91	−223.60	−317.91	+ 3	−10
30	76.63	52.71	124.63	836.99	859.41	369.86	223.21	317.86	+ 7	− 9
31	76.33	52.77	124.93	837.05	859.11	369.80	222.82	317.80	+10	− 6
April 1	76.03	52.83	125.23	837.11	858.81	369.74	222.43	317.74	+12	− 1
2	75.73	52.90	125.53	837.18	858.51	369.67	222.04	317.68	+11	+ 4
3	−75.43	+52.97	+125.83	+837.25	−858.21	−369.60	−221.65	−317.61	+ 8	+ 8
4	75.14	53.05	126.12	837.33	857.92	369.52	221.26	317.54	+ 4	+11
5	74.85	53.14	126.41	837.42	857.63	369.43	220.88	317.46	− 1	+11
6	74.56	53.24	126.70	837.52	857.34	369.33	220.50	317.38	− 6	+ 8
7	74.27	53.34	126.99	837.62	857.05	369.23	220.12	317.29	− 9	+ 3
8	−73.98	+53.44	+127.28	+837.72	−856.76	−369.13	−219.74	−317.20	−10	− 2
9	73.69	53.55	127.56	837.83	856.47	369.02	219.36	317.10	− 8	− 7
10	73.41	53.67	127.84	837.95	856.19	368.90	218.99	317.00	− 5	−10
11	73.13	53.79	128.12	838.07	855.91	368.78	218.62	316.89	− 1	−11
12	72.85	53.92	128.39	838.20	855.63	368.65	218.25	316.78	+ 3	− 9
13	−72.58	+54.05	+128.66	+838.33	−855.36	−368.52	−217.88	−316.66	+ 6	− 6
14	72.31	54.19	128.93	838.47	855.09	368.38	217.51	316.54	+ 7	− 1
15	72.04	54.33	129.20	838.61	854.82	368.24	217.14	316.42	+ 6	+ 3
16	71.78	54.48	129.46	838.76	854.55	368.09	216.78	316.29	+ 4	+ 7
17	71.52	54.63	129.72	838.91	854.29	367.94	216.42	316.16	+ 1	+10
18	−71.26	+54.79	+129.98	+839.07	−854.03	−367.78	−216.06	−316.02	− 3	+10
19	71.01	54.96	130.24	839.24	853.78	367.61	215.70	315.88	− 6	+ 9
20	−70.76	+55.13	+130.49	+839.41	−853.53	−367.44	−215.35	−315.74	− 8	+ 6
Mittl. Ort	−79.03	+79.32	+122.22	+863.57	−861.80	−343.23	−227.61	−307.46		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren

Scheinbare Koordinaten für 12ʰ Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.56ᵐ		BD +89° 3 Gr. 9.06ᵐ		BD +89° 37 Gr. 10.06ᵐ		CPD −89° 38 Gr. 9.5ᵐ		Kurzperiod. Mondgl.*)	
1930	x	y	x	y	x	y	x	y	in 0.01″	
April 20	−70.76″	+55.13″	+130.49″	+839.41″	−853.53″	−367.44″	−215.35″	−315.74″	− 8	+ 6
21	70.51	55.30	130.74	839.58	853.28	367.27	215.00	315.59	− 8	+ 2
22	70.26	55.48	130.99	839.76	853.03	367.09	214.65	315.44	− 8	− 2
23	70.02	55.66	131.23	839.94	852.79	366.91	214.31	315.28	− 6	− 6
24	69.78	55.85	131.47	840.13	852.55	366.72	213.97	315.12	− 3	− 9
25	−69.55	+56.04	+131.70	+840.32	−852.32	−366.53	−213.63	−314.95	+ 1	−10
26	69.32	56.24	131.93	840.52	852.09	366.33	213.29	314.78	+ 6	−10
27	69.10	56.44	132.15	840.72	851.87	366.13	212.96	314.60	+ 9	− 7
28	68.88	56.65	132.37	840.93	851.65	365.92	212.63	314.42	+11	− 3
29	68.67	56.86	132.58	841.14	851.44	365.71	212.30	314.24	+11	+ 2
30	− 68.46	+57.07	+132.79	+841.35	−851.23	−365.50	−211.97	−314.05	+ 9	+ 7
Mai 1	68.25	57.29	133.00	841.57	851.02	365.28	211.65	313.86	+ 5	+10
2	68.05	57.51	133.20	841.79	850.82	365.06	211.33	313.66	0	+11
3	67.85	57.74	133.40	842.02	850.62	364.83	211.02	313.46	− 5	+ 9
4	67.65	57.97	133.59	842.25	850.42	364.60	210.71	313.26	− 9	+ 5
5	−67.46	+58.20	+133.78	+842.48	−850.23	−364.37	−210.40	−313.05	−10	0
6	67.28	58.44	133.96	842.72	850.05	364.13	210.10	312.84	− 9	− 5
7	67.10	58.68	134.14	842.96	849.87	363.89	209.80	312.63	− 7	− 9
8	66.93	58.93	134.31	843.21	849.69	363.64	209.50	312.41	− 2	−11
9	66.76	59.18	134.48	843.46	849.52	363.39	209.21	312.19	+ 2	−10
10	−66.60	+59.43	+134.64	+843.71	−849.36	−363.14	−208.93	−311.97	+ 5	− 7
11	66.44	59.68	134.80	843.96	849.20	362.89	208.64	311.74	+ 7	− 3
12	66.29	59.94	134.95	844.22	849.05	362.63	208.36	311.51	+ 7	+ 2
13	66.14	60.20	135.10	844.48	848.90	362.37	208.08	311.27	+ 5	+ 6
14	66.00	60.46	135.24	844.74	848.75	362.11	207.81	311.03	+ 2	+ 9
15	−65.86	+60.73	+135.38	+845.01	−848.61	−361.84	−207.54	−310.79	− 1	+10
16	65.73	61.00	135.51	845.28	848.48	361.57	207.28	310.55	− 4	+ 9
17	65.60	61.27	135.64	845.55	848.35	361.30	207.02	310.30	− 7	+ 7
18	65.48	61.55	135.76	845.83	848.23	361.03	206.77	310.05	− 8	+ 4
19	65.36	61.83	135.87	846.11	848.11	360.75	206.52	309.80	− 8	0
20	−65.25	+62.11	+135.98	+846.39	−848.00	−360.47	−206.27	−309.54	− 7	− 5
21	65.14	62.39	136.09	846.67	847.89	360.19	206.03	309.28	− 4	− 8
22	65.04	62.67	136.19	846.95	847.79	359.91	205.79	309.02	0	−10
23	64.94	62.96	136.29	847.24	847.69	359.62	205.56	308.76	+ 4	−10
24	64.85	63.25	136.38	847.53	847.60	359.33	205.33	308.49	+ 8	− 8
25	−64.77	+63.54	+136.46	+847.82	−847.52	−359.04	−205.10	−308.22	+11	− 5
26	64.69	63.83	136.54	848.11	847.44	358.75	204.88	307.95	+12	0
27	−64.62	+64.12	+136.61	+848.40	−847.36	−358.46	−204.67	−307.67	+10	+ 5
Mittl. Ort	−79.03″	+79.32″	+122.22″	+863.57″	−861.80″	−343.23″	−227.61″	−307.46″		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1930

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Mondgl.*)	
1930	*x*	*y*	*x*	*y*	*x*	*y*	*x*	*y*	in $0''.01$	
Mai 27	−64.62	+64.12	+136.61	+848.40	−847.36	−358.46	−204.67	−307.67	+10	+ 5
28	64.55	64.42	136.68	848.69	847.29	358.17	204.46	307.39	+ 7	+ 9
29	64.49	64.72	136.74	848.99	847.23	357.87	204.26	307.11	+ 2	+11
30	64.44	65.02	136.79	849.29	847.18	357.57	204.06	306.83	− 3	+10
31	64.39	65.32	136.84	849.59	847.13	357.27	203.87	306.54	− 8	+ 7
Juni 1	−64.34	+65.62	+136.88	+849.89	−847.08	−356.97	−203.68	−306.25	−10	+ 2
2	64.30	65.92	136.92	850.19	847.04	356.67	203.50	305.96	−11	− 3
3	64.27	66.22	136.96	850.49	847.01	356.37	203.32	305.67	− 9	− 8
4	64.24	66.52	136.98	850.79	846.98	356.07	203.15	305.38	− 5	−10
5	64.22	66.82	137.00	851.09	846.96	355.76	202.98	305.09	0	−11
6	−64.21	+67.13	+137.02	+851.40	−846.95	−355.45	−202.82	−304.79	+ 4	− 9
7	64.20	67.44	137.03	851.71	846.94	355.14	202.66	304.49	+ 6	− 5
8	64.19	67.75	137.03	852.02	846.93	354.83	202.51	304.19	+ 7	0
9	64.19	68.06	137.03	852.33	846.93	354.52	202.36	303.89	+ 6	+ 4
10	64.20	68.37	137.02	852.64	846.94	354.21	202.22	303.59	+ 4	+ 8
11	−64.21	+68.67	+137.01	+852.95	−846.95	−353.91	−202.09	−303.29	0	+10
12	64.23	68.98	136.99	853.26	846.97	353.60	201.96	302.98	− 3	+10
13	64.26	69.29	136.96	853.57	846.99	353.29	201.83	302.67	− 6	+ 8
14	64.29	69.60	136.93	853.88	847.02	352.98	201.71	302.36	− 8	+ 5
15	64.32	69.91	136.89	854.19	847.06	352.67	201.60	302.05	− 8	+ 1
16	−64.36	+70.22	+136.85	+854.50	−847.10	−352.36	−201.49	−301.74	− 7	− 3
17	64.41	70.53	136.80	854.81	847.15	352.05	201.38	301.43	− 5	− 7
18	64.46	70.84	136.75	855.12	847.20	351.74	201.28	301.12	− 1	− 9
19	64.52	71.15	136.69	855.43	847.26	351.43	201.19	300.81	+ 3	−10
20	64.59	71.46	136.62	855.73	847.32	351.12	201.10	300.49	+ 7	− 9
21	−64.66	+71.77	+136.55	+856.04	−847.39	−350.81	−201.02	−300.18	+11	− 6
22	64.74	72.08	136.47	856.35	847.46	350.50	200.94	299.87	+12	− 2
23	64.82	72.39	136.39	856.66	847.54	350.19	200.87	299.56	+12	+ 3
24	64.91	72.70	136.30	856.97	847.63	349.88	200.81	299.24	+ 9	+ 8
25	65.00	73.01	136.21	857.27	847.72	349.58	200.75	298.92	+ 5	+10
26	−65.10	+73.31	+136.11	+857.57	−847.82	−349.28	−200.70	−298.60	− 1	+11
27	65.21	73.61	136.00	857.87	847.92	348.98	200.65	298.28	− 6	+ 9
28	65.32	73.91	135.89	858.17	848.03	348.68	200.61	297.96	− 9	+ 4
29	65.43	74.21	135.77	858.47	848.15	348.38	200.58	297.64	−11	− 1
30	65.55	74.51	135.65	858.77	848.27	348.08	200.55	297.32	−10	− 6
Juli 1	−65.68	+74.81	+135.52	+859.07	−848.40	−347.78	−200.53	−297.00	− 7	−10
2	65.81	75.11	135.39	859.37	848.53	347.48	200.51	296.68	− 3	−11
3	−65.95	+75.41	+135.25	+859.67	−848.66	−347.18	−200.49	−296.36	+ 2	−10
Mittl. Ort	−79.03	+79.32	+122.22	+863.57	−861.80	−343.23	−227.61	−307.46		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1930

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.56^m		BD +89° 3 Gr. 9.06^m		BD +89° 37 Gr. 10.06^m		CPD −89° 38 Gr. 9.5^m		Kurzperiod. Mondgl.*)	
1930	*x*	*y*	*x*	*y*	*x*	*y*	*x*	*y*	in 0.01"	
Juli 3	−65.95"	+75.41"	+135.25"	+859.67"	−848.66"	−347.18"	−200.49"	−296.36"	+ 2	−10
4	66.09	75.70	135.11	859.96	848.80	346.89	200.49	296.04	+ 5	− 6
5	66.24	75.99	134.96	860.25	848.95	346.60	200.49	295.72	+ 6	− 2
6	66.39	76.28	134.81	860.54	849.10	346.31	200.49	295.41	+ 6	+ 3
7	66.55	76.57	134.65	860.83	849.26	346.02	200.50	295.10	+ 4	+ 7
8	−66.71	+76.86	+134.48	+861.12	−849.42	−345.73	−200.52	−294.79	+ 1	+10
9	66.88	77.15	134.31	861.41	849.59	345.45	200.54	294.48	− 2	+10
10	67.05	77.43	134.14	861.69	849.76	345.17	200.57	294.17	− 5	+ 9
11	67.23	77.71	133.96	861.97	849.94	344.89	200.60	293.86	− 8	+ 6
12	67.41	77.99	133.77	862.25	850.12	344.61	200.64	293.55	− 9	+ 2
13	−67.60	+78.27	+133.58	+862.53	−850.31	−344.33	−200.68	−293.24	− 8	− 2
14	67.79	78.55	133.39	862.81	850.50	344.05	200.73	292.93	− 6	− 6
15	67.99	78.82	133.19	863.08	850.70	343.78	200.79	292.62	− 3	− 9
16	68.19	79.09	132.99	863.35	850.90	343.51	200.85	292.32	+ 1	−10
17	68.40	79.36	132.78	863.62	851.11	343.24	200.91	292.02	+ 6	−10
18	−68.62	+79.62	+132.57	+863.88	−851.32	−342.98	−200.99	−291.72	+10	− 8
19	68.84	79.88	132.35	864.14	851.54	342.72	201.07	291.42	+12	− 4
20	69.06	80.14	132.13	864.40	851.76	342.46	201.15	291.13	+13	+ 1
21	69.29	80.40	131.90	864.66	851.99	342.20	201.24	290.83	+11	+ 6
22	69.52	80.65	131.67	864.91	852.22	341.94	201.34	290.54	+ 7	+10
23	−69.76	+80.90	+131.43	+865.16	−852.45	−341.69	−201.44	−290.25	+ 2	+11
24	70.00	81.15	131.19	865.41	852.69	341.44	201.55	289.96	− 3	+10
25	70.24	81.40	130.95	865.66	852.93	341.20	201.66	289.67	− 7	+ 6
26	70.49	81.64	130.70	865.90	853.18	340.96	201.77	289.39	−10	+ 1
27	70.74	81.88	130.45	866.14	853.43	340.72	201.89	289.11	−10	− 4
28	−71.00	+82.12	+130.19	+866.38	−853.69	−340.48	−202.02	−288.83	− 8	− 8
29	71.26	82.35	129.93	866.61	853.95	340.25	202.15	288.56	− 4	−11
30	71.53	82.58	129.66	866.84	854.22	340.02	202.29	288.29	0	−11
31	71.80	82.81	129.39	867.07	854.49	339.79	202.43	288.02	+ 3	− 8
Aug. 1	72.08	83.03	129.11	867.29	854.77	339.57	202.58	287.75	+ 6	− 4
2	−72.36	+83.25	+128.83	+867.51	−855.05	−339.35	−202.73	−287.49	+ 6	+ 1
3	72.64	83.47	128.55	867.73	855.33	339.14	202.89	287.23	+ 5	+ 6
4	72.92	83.69	128.26	867.94	855.61	338.92	203.05	286.97	+ 2	+ 9
5	73.21	83.90	127.97	868.15	855.90	338.71	203.21	286.71	− 1	+10
6	73.50	84.11	127.68	868.36	856.19	338.50	203.38	286.46	− 5	+10
7	−73.80	+84.31	+127.38	+868.56	−856.49	−338.30	−203.56	−286.21	− 7	+ 7
8	74.10	84.51	127.08	868.76	856.79	338.10	203.74	285.97	− 9	+ 4
9	−74.40	+84.71	+126.78	+868.96	−857.09	−337.90	−203.93	−285.73	− 9	0
Mittl. Ort	−79.03"	+79.32"	+122.22"	+863.57"	−861.80"	−343.23"	−227.61"	−307.46"		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1930

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Mondgl.*)	
1930	x	y	x	y	x	y	x	y	in 0.″01	
Aug. 9	−74.″40	+84.″71	+126.″78	+868.″96	−857.″09	−337.″90	−203.″93	−285.″73	− 9	0
10	74.71	84.91	126.47	869.16	857.40	337.70	204.12	285.49	− 7	− 4
11	75.02	85.10	126.16	869.35	857.71	337.51	204.32	285.26	− 5	− 8
12	75.33	85.29	125.84	869.54	858.02	337.32	204.52	285.03	− 1	−10
13	75.65	85.47	125.52	869.72	858.34	337.14	204.72	284.81	+ 4	−10
14	−75.97	+85.65	+125.20	+869.90	−858.66	−336.96	−204.93	−284.59	+ 8	− 9
15	76.29	85.82	124.88	870.07	858.98	336.79	205.14	284.37	+11	− 5
16	76.62	85.99	124.55	870.24	859.31	336.62	205.36	284.16	+13	− 1
17	76.95	86.15	124.22	870.40	859.64	336.46	205.58	283.95	+12	+ 4
18	77.28	86.31	123.89	870.56	859.97	336.30	205.80	283.75	+ 9	+ 8
19	−77.62	+86.47	+123.55	+870.72	−860.30	−336.14	−206.03	−283.55	+ 5	+11
20	77.96	86.62	123.21	870.87	860.64	335.99	206.26	283.35	0	+11
21	78.30	86.77	122.87	871.02	860.98	335.84	206.50	283.16	− 5	+ 8
22	78.64	86.92	122.53	871.17	861.32	335.69	206.74	282.98	− 8	+ 3
23	78.99	87.06	122.18	871.31	861.67	335.55	206.98	282.80	−10	− 2
24	−79.34	+87.20	+121.83	+871.45	−862.02	−335.41	−207.23	−282.62	− 8	− 7
25	79.69	87.33	121.48	871.58	862.37	335.28	207.48	282.45	− 5	−10
26	80.04	87.46	121.12	871.71	862.72	335.15	207.73	282.29	− 1	−11
27	80.40	87.58	120.76	871.83	863.08	335.03	207.99	282.13	+ 3	− 9
28	80.76	87.70	120.40	871.95	863.44	334.91	208.25	281.97	+ 5	− 6
29	−81.12	+87.82	+120.04	+872.07	−863.80	−334.79	−208.51	−281.82	+ 6	− 1
30	81.48	87.93	119.68	872.18	864.16	334.68	208.78	281.68	+ 5	+ 4
31	81.85	88.04	119.31	872.29	864.52	334.57	209.05	281.54	+ 3	+ 8
Sept. 1	82.22	88.14	118.94	872.39	864.89	334.47	209.32	281.40	0	+10
2	82.59	88.24	118.57	872.49	865.26	334.37	209.59	281.27	− 4	+10
3	−82.96	+88.33	+118.20	+872.58	−865.63	−334.28	−209.87	−281.15	− 7	+ 8
4	83.33	88.42	117.83	872.67	866.00	334.19	210.15	281.03	− 9	+ 5
5	83.70	88.51	117.46	872.75	866.37	334.11	210.43	280.92	− 9	+ 1
6	84.08	88.59	117.08	872.83	866.75	334.03	210.71	280.81	− 9	− 3
7	84.46	88.67	116.70	872.91	867.13	333.95	210.99	280.71	− 6	− 6
8	−84.84	+88.74	+116.32	+872.98	−867.51	−333.88	−211.28	−280.61	− 3	− 9
9	85.22	88.81	115.94	873.05	867.89	333.81	211.57	280.52	+ 2	−10
10	85.60	88.87	115.56	873.11	868.27	333.75	211.86	280.43	+ 6	− 9
11	85.98	88.93	115.18	873.17	868.65	333.69	212.15	280.35	+10	− 7
12	86.36	88.98	114.80	873.23	869.03	333.64	212.45	280.28	+12	− 3
13	−86.75	+89.03	+114.41	+873.28	−869.41	−333.59	−212.75	−280.21	+12	+ 2
14	87.14	89.07	114.02	873.32	869.80	333.55	213.05	280.15	+10	+ 7
15	−87.53	+89.11	+113.63	+873.36	−870.19	−333.51	−213.35	−280.09	+ 7	+10
Mittl. Ort	−79.″03	+79.″32	+122.″22	+863.″57	−861.″80	−343.″23	−227.″61	−307.″46		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.56m		BD +89° 3 Gr. 9.06m		BD +89° 37 Gr. 10.06m		CPD −89° 38 Gr. 9.5m		Kurzperiod. Mondgl.*)	
1930	x	y	x	y	x	y	x	y	in 0.01″	
Sept. 15	− 87.53	+89.11″	+113.63	+873.36	−870.19	−333.51	−213.35	−280.09	+ 7	+10
16	87.92	89.14	113.24	873.39	870.58	333.48	213.65	280.04	+ 2	+11
17	88.31	89.17	112.85	873.42	870.97	333.45	213.95	280.00	− 3	+ 9
18	88.70	89.19	112.46	873.44	871.36	333.43	214.25	279.96	− 7	+ 6
19	89.10	89.21	112.07	873.46	871.75	333.41	214.55	279.93	− 9	0
20	− 89.50	+89.22	+111.68	+873.48	−872.14	−333.39	−214.85	−279.90	− 8	− 5
21	89.89	89.23	111.29	873.49	872.53	333.38	215.15	279.88	− 6	− 9
22	90.28	89.23	110.90	873.50	872.92	333.38	215.45	279.87	− 2	−11
23	90.67	89.23	110.51	873.50	873.31	333.38	215.75	279.86	+ 2	−10
24	91.06	89.23	110.12	873.50	873.70	333.38	216.06	279.86	+ 5	− 8
25	− 91.45	+89.22	+109.73	+873.49	−874.09	−333.39	−216.37	−279.86	+ 7	− 3
26	91.84	89.21	109.34	873.47	874.48	333.41	216.68	279.87	+ 6	+ 2
27	92.23	89.19	108.94	873.45	874.88	333.43	216.99	279.89	+ 4	+ 6
28	92.62	89.17	108.54	873.42	875.28	333.45	217.30	279.91	+ 1	+ 9
29	93.01	89.14	108.14	873.39	875.67	333.48	217.61	279.94	− 3	+10
30	− 93.40	+89.11	+107.74	+873.36	−876.06	−333.51	−217.92	−279.97	− 6	+ 9
Okt. 1	93.79	89.07	107.35	873.32	876.45	333.55	218.22	280.01	− 9	+ 7
2	94.18	89.03	106.96	873.28	876.84	333.59	218.52	280.06	−10	+ 3
3	94.57	88.98	106.57	873.23	877.23	333.64	218.82	280.11	− 9	− 1
4	94.96	88.93	106.18	873.18	877.62	333.69	219.12	280.17	− 7	− 5
5	− 95.35	+88.87	+105.79	+873.12	−878.01	−333.75	−219.42	−280.23	− 4	− 8
6	95.74	88.81	105.40	873.05	878.40	333.82	219.72	280.30	0	−10
7	96.13	88.74	105.02	872.98	878.79	333.89	220.02	280.38	+ 4	−10
8	96.51	88.67	104.64	872.91	879.17	333.96	220.31	280.46	+ 8	− 8
9	96.90	88.59	104.26	872.83	879.55	334.04	220.60	280.55	+11	− 4
10	− 97.29	+88.51	+103.88	+872.75	−879.93	−334.12	−220.89	−280.64	+12	0
11	97.67	88.43	103.50	872.67	880.31	334.20	221.18	280.74	+11	+ 5
12	98.05	88.34	103.12	872.58	880.69	334.29	221.47	280.85	+ 8	+ 9
13	98.43	88.24	102.74	872.48	881.07	334.39	221.76	280.97	+ 3	+11
14	98.81	88.14	102.36	872.38	881.45	334.49	222.04	281.09	− 2	+10
15	− 99.19	+88.03	+101.98	+872.28	−881.83	−334.60	−222.32	−281.21	− 6	+ 7
16	99.56	87.92	101.60	872.17	882.21	334.71	222.60	281.34	− 8	+ 2
17	99.93	87.80	101.22	872.05	882.59	334.83	222.88	281.48	− 9	− 3
18	100.30	87.68	100.85	871.93	882.96	334.95	223.15	281.62	− 7	− 8
19	100.67	87.55	100.48	871.80	883.33	335.07	223.42	281.77	− 3	−10
20	−101.04	+87.42	+100.11	+871.67	−883.70	−335.20	−223.69	−281.92	+ 1	−11
21	101.41	87.28	99.74	871.54	884.07	335.34	223.96	282.08	+ 5	− 9
22	−101.78	+87.14	+ 99.37	+871.40	−884.44	−335.48	−224.22	−282.25	+ 7	− 5
Mittl. Ort	− 79.03″	+79.32″	+122.22″	+863.57″	−861.80″	−343.23″	−227.61″	−307.46″		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1930

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10^m56		BD +89° 3 Gr. 9^m06		BD +89° 37 Gr. 10^m06		CPD −89° 38 Gr. 9^m5		Kurzperiod. Mondgl.*)	
1930	x	y	x	y	x	y	x	y	in $0\overset{s}{.}01$	
Okt. 22	−101.78	+87.14	+ 99.37	+871.40	−884.44	−335.48	−224.22	−282.25	+ 7	− 5
23	102.14	87.00	99.01	871.26	884.80	335.62	224.48	282.42	+ 7	0
24	102.50	86.85	98.65	871.11	885.16	335.77	224.74	282.59	+ 6	+ 5
25	102.86	86.70	98.29	870.96	885.52	335.93	224.99	282.77	+ 3	+ 8
26	103.22	86.54	97.94	870.80	885.88	336.09	225.24	282.96	− 1	+10
27	−103.57	+86.38	+ 97.59	+870.64	−886.23	−336.25	−225.49	−283.15	− 5	+10
28	103.92	86.21	97.24	870.47	886.58	336.42	225.73	283.34	− 8	+ 8
29	104.27	86.04	96.89	870.30	886.93	336.59	225.97	283.54	− 9	+ 4
30	104.62	85.86	96.54	870.12	887.27	336.77	226.20	283.75	−10	0
31	104.96	85.68	96.20	869.94	887.61	336.95	226.43	283.96	− 8	− 4
Nov. 1	−105.30	+85.50	+ 95.86	+869.76	−887.95	−337.14	−226.65	−284.18	− 6	− 7
2	105.63	85.31	95.52	869.57	888.29	337.33	226.87	284.40	− 2	− 9
3	105.96	85.12	95.19	869.38	888.62	337.52	227.09	284.62	+ 2	−10
4	106.29	84.92	94.86	869.18	888.95	337.72	227.30	284.85	+ 6	− 9
5	106.62	84.72	94.53	868.98	889.28	337.92	227.51	285.08	+10	− 6
6	−106.94	+84.51	+ 94.21	+868.77	−889.60	−338.13	−227.71	−285.32	+11	− 2
7	107.26	84.30	93.89	868.56	889.92	338.34	227.91	285.56	+11	+ 3
8	107.58	84.09	93.57	868.34	890.24	338.55	228.10	285.81	+ 9	+ 8
9	107.89	83.87	93.26	868.12	890.55	338.77	228.29	286.06	+ 5	+10
10	108.20	83.65	92.95	867.90	890.86	338.99	228.47	286.32	0	+11
11	−108.50	+83.42	+ 92.65	+867.67	−891.16	−339.22	−228.65	−286.58	− 5	+ 9
12	108.80	83.19	92.35	867.44	891.46	339.45	228.82	286.84	− 8	+ 4
13	109.09	82.95	92.05	867.21	891.76	339.69	228.99	287.11	− 9	− 1
14	109.38	82.71	91.76	866.97	892.05	339.93	229.15	287.38	− 8	− 6
15	109.67	82.47	91.47	866.73	892.34	340.17	229.31	287.65	− 5	−10
16	−109.95	+82.22	+ 91.19	+866.49	−892.62	−340.42	−229.46	−287.93	− 1	−11
17	110.23	81.97	90.91	866.24	892.90	340.67	229.61	288.21	+ 3	−10
18	110.51	81.72	90.63	865.99	893.18	340.93	229.75	288.50	+ 6	− 7
19	110.78	81.46	90.36	865.73	893.45	341.18	229.88	288.79	+ 8	− 2
20	111.05	81.20	90.09	865.47	893.71	341.44	230.01	289.08	+ 7	+ 3
21	−111.31	+80.93	+ 89.83	+865.21	−893.97	−341.71	−230.13	−289.37	+ 5	+ 7
22	111.56	80.66	89.58	864.94	894.23	341.98	230.25	289.67	+ 1	+10
23	111.81	80.39	89.33	864.67	894.48	342.25	230.36	289.97	− 3	+10
24	112.06	80.12	89.08	864.39	894.72	342.53	230.47	290.27	− 7	+ 9
25	112.30	79.84	88.84	864.11	894.96	342.81	230.57	290.57	− 9	+ 6
26	−112.54	+79.56	+ 88.60	+863.83	−895.20	−343.09	−230.66	−290.88	−10	+ 2
27	112.77	79.27	88.37	863.55	895.43	343.38	230.75	291.19	− 9	− 2
28	−113.00	+78.98	+ 88.14	+863.26	−895.66	−343.67	−230.83	−291.50	− 7	− 6
Mittl. Ort	− 79.03	+79.32	+122.22	+863.57	−861.80	−343.23	−227.61	−307.46		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^{m}.56$		BD +89° 3 Gr. $9^{m}.06$		BD +89° 37 Gr. $10^{m}.06$		CPD −89° 38 Gr. $9^{m}.5$		Kurzperiod. Mondgl.*)	
1930	*x*	*y*	*x*	*y*	*x*	*y*	*x*	*y*	in 0″.01	
Nov. 28	−113″.00	+78″.98	+ 88″.14	+863″.26	−895″.66	−343″.67	−230″.83	−291″.50	− 7	− 6
29	113.22	78.69	87.92	862.97	895.88	343.96	230.91	291.81	− 3	− 9
30	113.44	78.40	87.70	862.68	896.10	344.25	230.97	292.12	+ 1	−10
Dez. 1	113.65	78.10	87.49	862.38	896.31	344.55	231.03	292.44	+ 5	−10
2	113.85	77.80	87.29	862.08	896.51	344.85	231.09	292.76	+ 9	− 7
3	−114.05	+77.50	+ 87.09	+861.78	−896.71	−345.15	−231.14	−293.08	+11	− 3
4	114.25	77.20	86.89	861.48	896.91	345.46	231.18	293.40	+12	+ 2
5	114.43	76.89	86.71	861.17	897.09	345.77	231.21	293.72	+10	+ 6
6	114.61	76.58	86.53	860.86	897.27	346.08	231.24	294.05	+ 7	+10
7	114.79	76.27	86.35	860.55	897.45	346.39	231.26	294.38	+ 2	+11
8	−114.96	+75.96	+ 86.18	+860.23	−897.62	−346.70	−231.28	−294.70	− 3	+10
9	115.13	75.64	86.01	859.91	897.78	347.02	231.29	295.03	− 7	+ 7
10	115.29	75.32	85.85	859.59	897.94	347.34	231.29	295.36	− 9	+ 2
11	115.45	75.00	85.70	859.27	898.09	347.66	231.29	295.69	−10	− 4
12	115.59	74.68	85.55	858.95	898.24	347.98	231.28	296.02	− 7	− 8
13	−115.73	+74.36	+ 85.41	+858.63	−898.38	−348.31	−231.26	−296.35	− 3	−11
14	115.87	74.03	85.27	858.31	898.52	348.64	231.24	296.68	+ 1	−11
15	116.00	73.70	85.14	857.99	898.65	348.97	231.21	297.01	+ 5	− 8
16	116.12	73.37	85.02	857.66	898.77	349.30	231.17	297.34	+ 7	− 4
17	116.23	73.04	84.90	857.33	898.89	349.63	231.13	297.68	+ 7	+ 1
18	−116.34	+72.71	+ 84.79	+857.00	−899.00	−349.96	−231.08	−298.02	+ 6	+ 6
19	116.45	72.38	84.68	856.67	899.11	350.29	231.03	298.35	+ 3	+ 9
20	116.54	72.05	84.58	856.34	899.21	350.62	230.97	298.68	− 1	+11
21	116.63	71.72	84.49	856.01	899.30	350.95	230.90	299.01	− 5	+10
22	116.72	71.39	84.41	855.68	899.38	351.29	230.82	299.34	− 8	+ 7
23	−116.80	+71.05	+ 84.33	+855.35	−899.46	−351.63	−230.74	−299.67	− 9	+ 3
24	116.87	70.71	84.26	855.01	899.53	351.97	230.65	300.00	− 9	− 1
25	116.93	70.37	84.19	854.67	899.60	352.31	230.56	300.33	− 8	− 5
26	116.99	70.03	84.13	854.33	899.66	352.65	230.46	300.66	− 4	− 8
27	117.04	69.69	84.08	853.99	899.71	352.99	230.35	300.98	0	−10
28	−117.09	+69.35	+ 84.03	+853.66	−899.76	−353.32	−230.24	−301.31	+ 4	−10
29	117.13	69.01	83.99	853.33	899.80	353.65	230.12	301.64	+ 8	− 8
30	117.16	68.67	83.96	853.00	899.83	353 99	229.99	301.96	+11	− 5
31	117.18	68.33	83.93	852.66	899.86	354.33	229.86	302.28	+12	0
32	−117.20	+67.99	+ 83.91	+852.32	−899.88	−354.67	−229.72	−302.60	+11	+ 4
Mittl. Ort	− 79″.03	+79″.32	+122″.22	+863″.57	−861″.80	−343″.23	−227″.61	−307″.46		

*) Die Vorzeichen gelten für die drei nördlichen Sterne. für den südlichen sind sie umzukehren.

Formeln

zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34215 + 0.00031\,T)\sin\Omega + 0.00415\sin 2\Omega - 0.02526\sin 2L_\odot$$
$$+ 0.00251\sin M_\odot - 0.00099\sin(2L_\odot + M_\odot) + 0.00042\sin(2L_\odot - M_\odot)$$
$$+ 0.00025\sin(2L_\odot - \Omega)$$

$$A' = -0.00405\sin 2L_☾ + 0.00135\sin M_☾ - 0.00068\sin(2L_☾ - \Omega)$$
$$- 0.00052\sin(2L_☾ + M_☾) + 0.00030\sin(2L_☾ - 2L_\odot - M_☾)$$
$$+ 0.00023\sin(2L_☾ - M_☾) + 0.00012\sin(2L_☾ - 2L_\odot)$$

$$B = -(9''.210 + 0''.001\,T)\cos\Omega + 0''.090\cos 2\Omega - 0''.551\cos 2L_\odot$$
$$- 0''.022\cos(2L_\odot + M_\odot) + 0''.009\cos(2L_\odot - M_\odot)$$
$$+ 0''.007\cos(2L_\odot - \Omega)$$

$$B' = -0''.089\cos 2L_☾ - 0''.018\cos(2L_☾ - \Omega) - 0''.011\cos(2L_☾ + M_☾)$$
$$+ 0''.005\cos(2L_☾ - M_☾)$$

$$C = -20''.47\cos\odot\cos\varepsilon$$
$$D = -20''.47\sin\odot$$
$$E = -(0^s.0029 - 0^s.0004\,T)\sin\Omega$$

T Zeit seit 1900.0 in Einheiten von 100 tropischen Jahren

t Zeit seit Beginn des annus fictus in Bruchteilen des tropischen Jahres

$t = 0$ für 1930 Januar $1^d.0795$

$a = m + {}^1/_{15}\, n \sin\alpha \operatorname{tg}\delta$	$a' = n\cos\alpha$
$b = {}^1/_{15}\cos\alpha\operatorname{tg}\delta$	$b' = -\sin\alpha$
$c = {}^1/_{15}\cos\alpha\sec\delta$	$c' = \operatorname{tg}\varepsilon\cos\delta - \sin\alpha\sin\delta$
$d = {}^1/_{15}\sin\alpha\sec\delta$	$d' = \cos\alpha\sin\delta$

Für 1930.0 gilt: $m = +3^s.0729$, $n = +20''.044$, $\varepsilon = 23^\circ\,26'\,54''.21$

$$\alpha_{app.} = \alpha_{1930.0} + t\mu_\alpha + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$
$$\delta_{app.} = \delta_{1930.0} + t\mu_\delta + Aa' + Bb' + Cc' + Dd' \quad + [A'a' + B'b']$$

μ_α, μ_δ jährliche Eigenbewegung in Rektaszension, bez. Deklination

Setzt man

$f = mA + E$	$f' = mA'$	$i = C\operatorname{tg}\varepsilon$
$g\sin G = B$	$g'\sin G' = B'$	$h\sin H = C$
$g\cos G = nA$	$g'\cos G' = nA'$	$h\cos H = D,$

so wird:

$$\alpha_{app.} = \alpha_{1930.0} + t\mu_\alpha + f + {}^1/_{15}\, g\sin(G+\alpha)\operatorname{tg}\delta + {}^1/_{15}\, h\sin(H+\alpha)\sec\delta$$
$$+ [f' + {}^1/_{15}\, g'\sin(G'+\alpha)\operatorname{tg}\delta]$$

$$\delta_{app.} = \delta_{1930.0} + t\mu_\delta + g\cos(G+\alpha) + h\cos(H+\alpha)\sin\delta + i\cos\delta$$
$$+ [g'\cos(G'+\alpha)]$$

Reduktionsgrößen 1930

für 12h Sternzeit Greenwich

Welt-Zeit		t	log A	log B	log C	log D	E
1930							
Jan.	1.2	0.0004	9.30458_n	0.82112_n	0.51733_n	1.30434	−0.0017
	11.2	0.0277	9.21415_n	0.83097_n	0.81311_n	1.28339	17
	21.2	0.0550	9.10687_n	0.84367_n	0.97809_n	1.24682	16
	31.1	0.0823	8.97695_n	0.85812_n	1.08668_n	1.19181	16
Febr.	10.1	0.1096	8.81224_n	0.87256_n	1.16209_n	1.11314	16
	20.1	0.1369	8.58013_n	0.88570_n	1.21437_n	1.00035	−0.0016
März	2.1	0.1642	8.14019_n	0.89636_n	1.24873_n	0.82905	16
	12.0	0.1915	7.92942	0.90390_n	1.26799_n	0.51786	15
	22.0	0.2188	8.47538	0.90789_n	1.27367_n	9.37291_n	15
April	1.0	0.2461	8.71063	0.90832_n	1.26630_n	0.57299_n	15
	10.9	0.2734	8.86882	0.90558_n	1.24571_n	0.85224_n	−0.0015
	20.9	0.3007	8.99295	0.90026_n	1.21077_n	1.01136_n	15
	30.9	0.3280	9.09805	0.89321_n	1.15918_n	1.11740_n	14
Mai	10.9	0.3553	9.19033	0.88547_n	1.08661_n	1.19190_n	14
	20.8	0.3827	9.27268	0.87829_n	0.98462_n	1.24450_n	14
	30.8	0.4100	9.34651	0.87262_n	0.83493_n	1.28024_n	−0.0014
Juni	9.8	0.4373	9.41254	0.86953_n	0.58467_n	1.30183_n	14
	19.8	0.4646	9.47137	0.86947_n	9.87390_n	1.31078_n	13
	29.7	0.4919	9.52340	0.87286_n	0.37346	1.30767_n	13
Juli	9.7	0.5192	9.56903	0.87933_n	0.73296	1.29232_n	13
	19.7	0.5465	9.60879	0.88840_n	0.91934	1.26387_n	−0.0013
	29.6	0.5738	9.64314	0.89927_n	1.04052	1.22032_n	13
Aug.	8.6	0.6011	9.67266	0.91078_n	1.12558	1.15815_n	12
	18.6	0.6284	9.69799	0.92200_n	1.18650	1.07081_n	12
	28.6	0.6557	9.71982	0.93192_n	1.22922	0.94488_n	12
Sept.	7.5	0.6830	9.73894	0.93972_n	1.25689	0.74687_n	−0.0012
	17.5	0.7103	9.75613	0.94483_n	1.27119	0.33885_n	12
	27.5	0.7376	9.77224	0.94689_n	1.27279	0.11394	11
Okt.	7.5	0.7649	9.78806	0.94586_n	1.26160	0.67788	11
	17.4	0.7922	9.80426	0.94191_n	1.23664	0.90886	11
	27.4	0.8195	9.82132	0.93561_n	1.19601	1.05019	−0.0011
Nov.	6.4	0.8468	9.83952	0.92773_n	1.13612	1.14681	11
	16.3	0.8741	9.85886	0.91944_n	1.05042	1.21498	10
	26.3	0.9014	9.87913	0.91206_n	0.92557	1.26231	10
Dez.	6.3	0.9287	9.89990	0.90660_n	0.72827	1.29277	10
	16.3	0.9560	9.92064	0.90412_n	0.32139	1.30841	−0.0009
	26.2	0.9833	9.94080	0.90515_n	0.08920_n	1.31018	09
	36.2	1.0106	9.95988	0.90988_n	0.65475_n	1.29818	−0.0009

Tag	St.-Zt Grw.	t	f	log g	G	log h	H	log i	i
	0h Welt-Zeit								
1930									
	h	s	s		h m		h m		s
Jan. 0	6.6	−0.0030	−0.636	0.8918	15 51.8	1.3103	23 27.5	0.0980_n	−1.253
1	6.7	−0.0002	0.624	0.8901	15 53.9	1.3101	23 23.7	0.1449_n	1.396
2	6.7	+0.0025	0.612	0.8885	15 56.1	1.3099	23 20.0	0.1872_n	1.539
3	6.8	0.0053	0.600	0.8869	15 58.3	1.3097	23 16.2	0.2256_n	1.681
4	6.9	0.0080	0.588	0.8854	16 0.5	1.3094	23 12.4	0.2605_n	1.822
5	6.9	0.0107	0.577	0.8839	16 2.7	1.3091	23 8.7	0.2929_n	1.963
6	7.0	0.0135	−0.565	0.8825	16 4.9	1.3088	23 4.9	0.3228_n	−2.103
7	7.1	0.0162	0.553	0.8812	16 7.1	1.3085	23 1.1	0.3508_n	2.243
8	7.1	0.0189	0.542	0.8800	16 9.4	1.3082	22 57.3	0.3769_n	2.382
9	7.2	0.0217	0.530	0.8789	16 11.6	1.3078	22 53.5	0.4014_n	2.520
10	7.3	0.0244	0.519	0.8778	16 13.9	1.3074	22 49.7	0.4244_n	2.657
11	7.3	0.0272	0.507	0.8768	16 16.2	1.3070	22 45.9	0.4461_n	2.793
12	7.4	0.0299	−0.496	0.8759	16 18.4	1.3066	22 42.1	0.4667_n	−2.929
13	7.4	0.0326	0.484	0.8751	16 20.7	1.3062	22 38.3	0.4863_n	3.064
14	7.5	0.0354	0.473	0.8744	16 23.0	1.3057	22 34.5	0.5049_n	3.198
15	7.6	0.0381	0.462	0.8737	16 25.3	1.3053	22 30.6	0.5226_n	3.331
16	7.6	0.0408	0.451	0.8731	16 27.6	1.3048	22 26.8	0.5395_n	3.463
17	7.7	0.0436	0.440	0.8726	16 29.9	1.3043	22 22.9	0.5555_n	3.593
18	7.8	0.0463	−0.429	0.8722	16 32.2	1.3038	22 19.0	0.5708_n	−3.722
19	7.8	0.0491	0.418	0.8718	16 34.4	1.3033	22 15.2	0.5855_n	3.850
20	7.9	0.0518	0.407	0.8715	16 36.7	1.3028	22 11.3	0.5996_n	3.977
21	8.0	0.0545	0.396	0.8712	16 38.9	1.3022	22 7.4	0.6131_n	4.103
22	8.0	0.0573	0.386	0.8710	16 41.2	1.3016	22 3.5	0.6260_n	4.227
23	8.1	0.0600	0.375	0.8710	16 43.4	1.3011	21 59.6	0.6385_n	4.350
24	8.2	0.0628	−0.365	0.8710	16 45.6	1.3005	21 55.7	0.6505_n	−4.472
25	8.2	0.0655	0.355	0.8710	16 47.8	1.2999	21 51.8	0.6620_n	4.592
26	8.3	0.0682	0.344	0.8711	16 50.0	1.2993	21 47.9	0.6731_n	4.711
27	8.4	0.0710	0.334	0.8713	16 52.2	1.2987	21 43.9	0.6838_n	4.828
28	8.4	0.0737	0.324	0.8716	16 54.3	1.2981	21 40.0	0.6940_n	4.943
29	8.5	0.0764	0.314	0.8719	16 56.5	1.2974	21 36.0	0.7039_n	5.057
30	8.6	0.0792	−0.304	0.8722	16 58.6	1.2968	21 32.0	0.7134_n	−5.169
31	8.6	0.0819	0.294	0.8726	17 0.7	1.2962	21 28.0	0.7226_n	5.280
Febr. 1	8.7	0.0847	0.285	0.8730	17 2.7	1.2955	21 24.0	0.7315_n	5.389
2	8.8	0.0874	0.275	0.8735	17 4.8	1.2949	21 20.0	0.7401_n	5.497
3	8.8	0.0901	0.266	0.8741	17 6.8	1.2942	21 16.0	0.7484_n	5.603
4	8.9	0.0929	0.256	0.8747	17 8.8	1.2935	21 12.0	0.7563_n	5.706
5	9.0	0.0956	−0.247	0.8753	17 10.8	1.2929	21 7.9	0.7640_n	−5.808
6	9.0	0.0983	0.238	0.8759	17 12.7	1.2922	21 3.9	0.7714_n	5.908
7	9.1	0.1011	0.229	0.8766	17 14.6	1.2916	20 59.8	0.7786_n	6.006
8	9.2	0.1038	0.220	0.8774	17 16.5	1.2909	20 55.7	0.7855_n	6.102
9	9.2	0.1066	0.211	0.8782	17 18.4	1.2902	20 51.7	0.7922_n	6.197
10	9.3	0.1093	−0.202	0.8790	17 20.2	1.2896	20 47.6	0.7987_n	−6.290

Tag	0h Welt-Zeit								
	f'	g'	G'	Allgemeine Präzession seit 1930.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1930	in 0.s001	in 0.″01				in 0.″01	23° 27′		in 0.″01
Jan. 0	+ 4	+10	5.h0	−0.″15	−10.″25	+ 6	0.″72	+6.″61	− 9
1	+ 8	9	3.8	−0.01	10.19	+13	0.75	6.62	− 8
2	+11	9	2.4	+0.13	10.13	+17	0.79	6.63	− 5
3	+11	8	0.5	0.26	10.08	+19	0.84	6.64	− 1
4	+10	7	22.2	0.40	10.02	+16	0.89	6.66	+ 3
5	+ 6	8	20.0	0.54	9.96	+10	0.94	6.67	+ 7
6	0	+ 9	18.1	+0.68	− 9.91	+ 1	0.98	+6.69	+ 9
7	− 6	11	16.6	0.81	9.86	−10	1.01	6.70	+10
8	−13	12	15.1	0.95	9.80	−21	1.01	6.72	+ 9
9	−18	13	13.7	1.09	9.75	−29	0.99	6.73	+ 6
10	−20	13	12.3	1.23	9.70	−32	0.96	6.75	+ 1
11	−18	12	10.7	1.37	9.65	−30	0.92	6.77	− 4
12	−13	+12	9.0	+1.50	− 9.60	−21	0.90	+6.79	− 8
13	− 5	11	7.2	1.64	9.55	− 9	0.89	6.81	−11
14	+ 3	11	5.2	1.78	9.51	+ 5	0.91	6.83	−10
15	+11	10	3.2	1.92	9.46	+17	0.96	6.85	− 8
16	+16	11	1.2	2.05	9.42	+26	1.02	6.87	− 3
17	+17	11	23.3	2.19	9.38	+28	1.09	6.89	+ 2
18	+15	+12	21.6	+2.33	− 9.33	+24	1.16	+6.91	+ 7
19	+10	12	20.2	2.47	9.29	+16	1.21	6.93	+10
20	+ 3	11	18.8	2.60	9.26	+ 5	1.24	6.95	+11
21	− 3	9	17.3	2.74	9.22	− 4	1.25	6.97	+ 9
22	− 7	7	15.4	2.88	9.18	−11	1.23	7.00	+ 5
23	− 9	6	12.7	3.02	9.15	−15	1.21	7.02	+ 1
24	− 8	+ 6	9.9	+3.15	− 9.11	−14	1.19	+7.04	− 3
25	− 6	8	7.8	3.29	9.08	− 9	1.17	7.06	− 7
26	− 1	9	6.4	3.43	9.05	− 2	1.17	7.09	− 9
27	+ 3	10	5.2	3.57	9.02	+ 5	1.19	7.11	−10
28	+ 8	10	4.0	3.70	9.00	+12	1.22	7.14	− 9
29	+11	9	2.7	3.84	8.97	+17	1.27	7.16	− 6
30	+12	+ 8	1.0	+3.98	− 8.95	+20	1.33	+7.18	− 2
31	+11	8	23.0	4.12	8.92	+19	1.40	7.21	+ 2
Febr. 1	+ 8	8	20.8	4.25	8.90	+14	1.46	7.23	+ 6
2	+ 3	9	18.8	4.39	8.89	+ 5	1.51	7.26	+ 9
3	− 3	11	17.2	4.53	8.87	− 6	1.55	7.28	+10
4	−10	12	15.7	4.67	8.85	−17	1.57	7.31	+10
5	−16	+12	14.3	+4.81	− 8.84	−26	1.56	+7.33	+ 7
6	−19	13	12.8	4.94	8.82	−31	1.54	7.35	+ 3
7	−19	13	11.2	5.08	8.81	−31	1.51	7.38	− 3
8	−15	12	9.6	5.22	8.80	−25	1.49	7.40	− 7
9	− 9	12	8.0	5.36	8.80	−14	1.48	7.43	−10
10	− 1	+11	6.1	+5.49	− 8.79	− 1	1.50	+7.45	−11

Reduktionsgrößen 1930

Tag	0h Welt-Zeit								
	St. Zt. Grw.	t	f	$\log g$	G	$\log h$	H	$\log i$	i
1930									
	h	a	s		h m		h m		
Febr. 10	9.3	0.1093	−0.202	0.8790	17 20.2	1.2896	20 47.6	0.7987_n	−6.290
11	9.4	0.1120	0.193	0.8798	17 22.0	1.2889	20 43.5	0.8048_n	6.380
12	9.4	0.1148	0.185	0.8806	17 23.8	1.2883	20 39.4	0.8108_n	6.468
13	9.5	0.1175	0.176	0.8815	17 25.6	1.2876	20 35.2	0.8165_n	6.554
14	9.6	0.1202	0.168	0.8824	17 27.3	1.2870	20 31.1	0.8221_n	6.639
15	9.6	0.1230	0.160	0.8832	17 29.0	1.2863	20 26.9	0.8274_n	6.721
16	9.7	0.1257	−0.151	0.8841	17 30.7	1.2857	20 22.8	0.8326_n	−6.801
17	9.7	0.1285	0.143	0.8850	17 32.4	1.2851	20 18.6	0.8375_n	6.879
18	9.8	0.1312	0.135	0.8859	17 34.0	1.2845	20 14.4	0.8423_n	6.955
19	9.9	0.1339	0.127	0.8868	17 35.6	1.2839	20 10.2	0.8468_n	7.028
20	9.9	0.1367	0.119	0.8877	17 37.2	1.2833	20 6.0	0.8512_n	7.099
21	10.0	0.1394	0.111	0.8886	17 38.7	1.2827	20 1.8	0.8555_n	7.169
22	10.1	0.1422	−0.104	0.8895	17 40.3	1.2821	19 57.6	0.8595_n	−7.236
23	10.1	0.1449	0.096	0.8904	17 41.8	1.2816	19 53.4	0.8634_n	7.301
24	10.2	0.1476	0.088	0.8914	17 43.3	1.2810	19 49.2	0.8671_n	7.363
25	10.3	0.1504	0.081	0.8923	17 44.8	1.2805	19 44.9	0.8706_n	7.423
26	10.3	0.1531	0.074	0.8932	17 46.3	1.2800	19 40.7	0.8740_n	7.481
27	10.4	0.1558	0.066	0.8940	17 47.7	1.2795	19 36.4	0.8771_n	7.536
28	10.5	0.1586	−0.059	0.8949	17 49.1	1.2790	19 32.1	0.8802_n	−7.589
März 1	10.5	0.1613	0.052	0.8958	17 50.5	1.2785	19 27.8	0.8831_n	7.640
2	10.6	0.1641	0.045	0.8966	17 51.8	1.2781	19 23.6	0.8858_n	7.688
3	10.7	0.1668	0.037	0.8974	17 53.2	1.2777	19 19.3	0.8884_n	7.734
4	10.7	0.1695	0.030	0.8982	17 54.5	1.2773	19 15.0	0.8909_n	7.778
5	10.8	0.1723	0.023	0.8990	17 55.9	1.2769	19 10.7	0.8932_n	7.819
6	10.9	0.1750	−0.016	0.8998	17 57.2	1.2765	19 6.4	0.8953_n	−7.857
7	10.9	0.1777	0.010	0.9005	17 58.5	1.2762	19 2.1	0.8972_n	7.893
8	11.0	0.1805	−0.003	0.9013	17 59.8	1.2758	18 57.7	0.8991_n	7.927
9	11.1	0.1832	+0.004	0.9020	18 1.1	1.2755	18 53.4	0.9009_n	7.959
10	11.1	0.1860	0.011	0.9027	18 2.3	1.2752	18 49.1	0.9024_n	7.988
11	11.2	0.1887	0.017	0.9034	18 3.6	1.2750	18 44.8	0.9039_n	8.015
12	11.3	0.1914	+0.024	0.9040	18 4.8	1.2747	18 40.4	0.9052_n	−8.039
13	11.3	0.1942	0.031	0.9047	18 6.0	1.2745	18 36.1	0.9063_n	8.060
14	11.4	0.1969	0.037	0.9053	18 7.2	1.2743	18 31.8	0.9074_n	8.079
15	11.5	0.1996	0.044	0.9059	18 8.5	1.2742	18 27.4	0.9083_n	8.096
16	11.5	0.2024	0.051	0.9064	18 9.7	1.2740	18 23.1	0.9091_n	8.111
17	11.6	0.2051	0.057	0.9069	18 10.9	1.2739	18 18.8	0.9097_n	8.123
18	11.7	0.2079	+0.064	0.9074	18 12.1	1.2738	18 14.4	0.9102_n	−8.132
19	11.7	0.2106	0.070	0.9078	18 13.3	1.2738	18 10.1	0.9106_n	8.139
20	11.8	0.2133	0.077	0.9083	18 14.5	1.2737	18 5.8	0.9108_n	8.144
21	11.9	0.2161	0.083	0.9087	18 15.7	1.2737	18 1.5	0.9109_n	8.146
22	11.9	0.2188	0.090	0.9091	18 16.9	1.2737	17 57.1	0.9109_n	8.145
23	12.0	0.2216	+0.097	0.9094	18 18.1	1.2737	17 52.8	0.9107_n	−8.142

Tag	0ʰ Welt-Zeit								
	f'	g'	G'	Allgemeine Präzession seit 1930.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
1930	in 0ˢ.001	in 0ˢ.01				in 0".01	23° 27'		in 0".01
Febr. 10	− 1	+11	6ʰ.1	+ 5".49	−8".79	− 1	1".50	+7".45	−11
11	+ 7	10	4.2	5.63	8.78	+12	1.54	7.48	− 9
12	+13	10	2.0	5.77	8.78	+22	1.61	7.50	− 5
13	+16	10	23.9	5.91	8.78	+26	1.68	7.53	0
14	+15	11	22.1	6.04	8.78	+24	1.75	7.55	+ 5
15	+11	12	20.5	6.18	8.78	+17	1.81	7.57	+ 9
16	+ 5	+11	19.1	+ 6.32	−8.78	+ 8	1.85	+7.59	+10
17	− 1	10	17.7	6.46	8.79	− 2	1.86	7.62	+10
18	− 6	8	16.0	6.59	8.79	−10	1.86	7.64	+ 7
19	− 9	6	13.6	6.73	8.80	−14	1.83	7.66	+ 2
20	− 9	6	10.6	6.87	8.81	−14	1.81	7.68	− 2
21	− 6	7	8.3	7.01	8.82	−10	1.78	7.70	− 6
22	− 2	+ 9	6.7	+ 7.14	−8.83	− 4	1.78	+7.73	− 9
23	+ 2	10	5.4	7.28	8.84	+ 4	1.79	7.75	−10
24	+ 7	10	4.2	7.42	8.86	+11	1.81	7.77	− 9
25	+10	10	3.0	7.56	8.87	+17	1.85	7.79	− 7
26	+13	9	1.5	7.69	8.89	+20	1.91	7.80	− 3
27	+12	8	23.6	7.83	8.91	+20	1.97	7.82	+ 1
28	+10	+ 8	21.5	+ 7.97	−8.93	+16	2.02	+7.84	+ 5
März 1	+ 6	9	19.5	8.11	8.95	+ 9	2.08	7.86	+ 8
2	− 1	10	17.9	8.25	8.97	− 1	2.11	7.88	+10
3	− 7	11	16.3	8.38	8.99	−12	2.12	7.89	+10
4	−14	12	14.8	8.52	9.01	−22	2.12	7.91	+ 8
5	−18	12	13.3	8.66	9.03	−29	2.09	7.92	+ 4
6	−19	+12	11.7	+ 8.80	−9.06	−31	2.05	+7.94	− 1
7	−17	12	10.1	8.93	9.08	−27	2.02	7.95	− 6
8	−11	12	8.4	9.07	9.11	−18	1.99	7.97	− 9
9	− 3	11	6.7	9.21	9.13	− 6	1.99	7.98	−11
10	+ 5	10	4.9	9.35	9.16	+ 7	2.01	7.99	−10
11	+11	10	2.8	9.48	9.19	+18	2.06	8.00	− 6
12	+14	+ 9	0.6	+ 9.62	−9.22	+24	2.12	+8.01	− 1
13	+14	10	22.5	9.76	9.25	+24	2.18	8.03	+ 4
14	+11	11	20.8	9.90	9.28	+18	2.23	8.04	+ 8
15	+ 6	11	19.3	10.03	9.31	+ 9	2.26	8.04	+10
16	0	10	17.9	10.17	9.33	− 1	2.27	8.05	+10
17	− 6	9	16.3	10.31	9.36	− 9	2.25	8.06	+ 8
18	− 9	+ 7	14.3	+10.45	−9.39	−15	2.22	+8.07	+ 4
19	−10	6	11.5	10.58	9.42	−16	2.17	8.07	− 1
20	− 8	7	9.0	10.72	9.46	−12	2.14	8.08	− 5
21	− 4	9	7.1	10.86	9.49	− 6	2.11	8.08	− 8
22	+ 1	10	5.8	11.00	9.52	+ 2	2.10	8.09	−10
23	+ 6	+10	4.6	+11.14	−9.55	+ 9	2.10	+8.09	−10

Reductionsgrößen 1930

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1930	h	s	s		h m		h m		
März 23	12.0	0.2216	+0.097	0.9094	18 18.1	1.2737	17 52.8	0.9107_n	−8.142
24	12.0	0.2243	0.103	0.9098	18 19.3	1.2738	17 48.5	0.9105_n	8.137
25	12.1	0.2270	0.110	0.9101	18 20.5	1.2738	17 44.2	0.9100_n	8.129
26	12.2	0.2298	0.116	0.9105	18 21.7	1.2739	17 39.9	0.9095_n	8.119
27	12.2	0.2325	0.123	0.9108	18 22.9	1.2741	17 35.5	0.9088_n	8.106
28	12.3	0.2352	0.130	0.9111	18 24.1	1.2742	17 31.2	0.9080_n	8.091
29	12.4	0.2380	+0.136	0.9113	18 25.3	1.2744	17 26.9	0.9071_n	−8.074
30	12.4	0.2407	0.143	0.9115	18 26.5	1.2746	17 22.6	0.9061_n	8.055
31	12.5	0.2435	0.150	0.9117	18 27.8	1.2748	17 18.4	0.9049_n	8.033
April 1	12.6	0.2462	0.156	0.9119	18 29.0	1.2750	17 14.1	0.9035_n	8.008
2	12.6	0.2489	0.163	0.9121	18 30.2	1.2753	17 9.8	0.9021_n	7.981
3	12.7	0.2517	0.170	0.9122	18 31.5	1.2756	17 5.5	0.9005_n	7.952
4	12.8	0.2544	+0.177	0.9123	18 32.7	1.2759	17 1.3	0.8988_n	−7.921
5	12.8	0.2571	0.184	0.9124	18 34.0	1.2762	16 57.0	0.8969_n	7.887
6	12.9	0.2599	0.191	0.9125	18 35.3	1.2766	16 52.8	0.8949_n	7.850
7	13.0	0.2626	0.198	0.9126	18 36.5	1.2769	16 48.6	0.8927_n	7.811
8	13.0	0.2654	0.205	0.9127	18 37.8	1.2773	16 44.4	0.8904_n	7.770
9	13.1	0.2681	0.212	0.9128	18 39.1	1.2777	16 40.2	0.8880_n	7.727
10	13.2	0.2708	+0.219	0.9128	18 40.5	1.2781	16 36.0	0.8855_n	−7.682
11	13.2	0.2736	0.226	0.9129	18 41.8	1.2786	16 31.8	0.8828_n	7.635
12	13.3	0.2763	0.233	0.9129	18 43.2	1.2790	16 27.6	0.8800_n	7.585
13	13.4	0.2790	0.240	0.9130	18 44.5	1.2795	16 23.4	0.8770_n	7.533
14	13.4	0.2818	0.248	0.9130	18 45.9	1.2800	16 19.3	0.8738_n	7.479
15	13.5	0.2845	0.255	0.9130	18 47.3	1.2805	16 15.1	0.8706_n	7.423
16	13.6	0.2873	+0.263	0.9131	18 48.7	1.2810	16 11.0	0.8672_n	−7.365
17	13.6	0.2900	0.270	0.9131	18 50.1	1.2815	16 6.9	0.8636_n	7.305
18	13.7	0.2927	0.278	0.9131	18 51.5	1.2821	16 2.8	0.8599_n	7.242
19	13.8	0.2955	0.286	0.9131	18 52.9	1.2826	15 58.7	0.8559_n	7.177
20	13.8	0.2982	0.293	0.9132	18 54.3	1.2832	15 54.6	0.8519_n	7.110
21	13.9	0.3010	0.301	0.9132	18 55.8	1.2838	15 50.5	0.8476_n	7.041
22	14.0	0.3037	+0.309	0.9133	18 57.3	1.2843	15 46.5	0.8433_n	−6.971
23	14.0	0.3064	0.317	0.9133	18 58.8	1.2849	15 42.4	0.8388_n	6.899
24	14.1	0.3092	0.325	0.9134	19 0.3	1.2855	15 38.4	0.8340_n	6.824
25	14.2	0.3119	0.334	0.9135	19 1.9	1.2861	15 34.4	0.8291_n	6.747
26	14.2	0.3146	0.342	0.9137	19 3.4	1.2867	15 30.4	0.8240_n	6.668
27	14.3	0.3174	0.350	0.9138	19 5.0	1.2874	15 26.4	0.8188_n	6.588
28	14.3	0.3201	+0.359	0.9140	19 6.6	1.2880	15 22.4	0.8133_n	−6.506
29	14.4	0.3229	0.367	0.9141	19 8.2	1.2886	15 18.5	0.8077_n	6.422
30	14.5	0.3256	0.376	0.9143	19 9.8	1.2892	15 14.5	0.8018_n	6.336
Mai 1	14.5	0.3283	0.385	0.9146	19 11.4	1.2899	15 10.6	0.7957_n	6.248
2	14.6	0.3311	0.393	0.9148	19 13.0	1.2905	15 6.7	0.7895_n	6.159
3	14.7	0.3338	+0.402	0.9151	19 14.7	1.2911	15 2.8	0.7830_n	−6.068

Tag	0ʰ Welt-Zeit								
	f′	g′	G′	Allgemeine Präzession seit 1930.0	Δψ	Δψ′	Wahre Schiefe	Δε	Δε′
1930	in 0.ˢ001	in 0.″01	ʰ	″	″	in 0.″01	23° 27′ ″	″	in 0.″01
März 23	+ 6	+10	4.6	+11.14	− 9.55	+ 9	2.10	+8.09	−10
24	+10	10	3.3	11.27	9.58	+16	2.12	8.10	− 8
25	+12	9	1.9	11.41	9.61	+20	2.15	8.10	− 4
26	+13	8	0.2	11.55	9.64	+21	2.20	8.10	0
27	+11	8	22.3	11.69	9.67	+18	2.24	8.10	+ 4
28	+ 7	9	20.2	11.82	9.70	+12	2.27	8.10	+ 7
29	+ 2	+10	18.5	+11.96	− 9.73	+ 3	2.29	+8.10	+ 9
30	− 5	11	16.9	12.10	9.76	− 8	2.30	8.10	+10
31	−11	11	15.3	12.24	9.78	−18	2.28	8.10	+ 9
April 1	−16	12	13.9	12.37	9.81	−26	2.25	8.10	+ 6
2	−18	12	12.3	12.51	9.84	−30	2.19	8.10	+ 1
3	−17	12	10.6	12.65	9.87	−27	2.14	8.09	− 4
4	−12	+12	8.9	+12.79	− 9.89	−20	2.09	+8.09	− 8
5	− 5	11	7.2	12.92	9.92	− 8	2.06	8.08	−11
6	+ 3	11	5.4	13.06	9.94	+ 4	2.06	8.08	−11
7	+ 9	10	3.4	13.20	9.96	+15	2.08	8.07	− 8
8	+14	10	1.3	13.34	9.99	+23	2.12	8.07	− 3
9	+15	10	23.1	13.47	10.01	+25	2.16	8.06	+ 2
10	+12	+11	21.3	+13.61	−10.03	+20	2.20	+8.05	+ 7
11	+ 7	11	19.6	13.75	10.05	+11	2.23	8.05	+10
12	+ 1	11	18.1	13.89	10.07	+ 1	2.22	8.04	+11
13	− 5	9	16.6	14.02	10.09	− 8	2.20	8.03	+ 9
14	− 9	8	14.8	14.16	10.11	−15	2.15	8.02	+ 5
15	−10	7	12.4	14.30	10.12	−17	2.09	8.01	+ 1
16	− 9	+ 7	9.8	+14.44	−10.14	−15	2.04	+8.00	− 4
17	− 6	8	7.8	14.58	10.15	− 9	1.99	7.99	− 7
18	− 1	9	6.2	14.71	10.16	− 1	1.96	7.98	− 9
19	+ 4	10	5.0	14.85	10.17	+ 7	1.94	7.97	−10
20	+ 9	10	3.7	14.99	10.18	+14	1.94	7.96	− 8
21	+12	9	2.4	15.13	10.19	+19	1.96	7.95	− 5
22	+13	+ 9	0.8	+15.26	−10.20	+21	1.98	+7.94	− 2
23	+12	8	22.8	15.40	10.21	+19	2.01	7.92	+ 2
24	+ 9	8	20.8	15.54	10.21	+14	2.04	7.91	+ 6
25	+ 3	9	18.9	15.68	10.22	+ 6	2.05	7.90	+ 9
26	− 3	10	17.3	15.81	10.22	− 5	2.05	7.89	+10
27	− 9	11	15.8	15.95	10.22	−15	2.03	7.87	+ 9
28	−15	+12	14.3	+16.09	−10.22	−24	1.98	+7.86	+ 7
29	−17	12	12.8	16.23	10.22	−29	1.93	7.85	+ 2
30	−17	11	11.1	16.36	10.22	−28	1.86	7.83	− 3
Mai 1	−13	11	9.4	16.50	10.21	−22	1.80	7.82	− 7
2	− 7	11	7.6	16.64	10.21	−11	1.75	7.80	−10
3	+ 1	+11	5.8	+16.78	−10.20	+ 1	1.73	+7.79	−11

Tag	0h Welt-Zeit St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1930	h	s	s		h m		h m		s
Mai 3	14.7	0.3338	+0.402	0.9151	19 14.7	1.2911	15 2.8	0.7830$_n$	−6.068
4	14.7	0.3365	0.411	0.9154	19 16.3	1.2918	14 58.9	0.7763$_n$	5.975
5	14.8	0.3393	0.420	0.9157	19 18.0	1.2924	14 55.0	0.7695$_n$	5.881
6	14.9	0.3420	0.429	0.9161	19 19.7	1.2930	14 51.1	0.7623$_n$	5.785
7	14.9	0.3448	0.438	0.9165	19 21.4	1.2937	14 47.3	0.7549$_n$	5.687
8	15.0	0.3475	0.448	0.9169	19 23.1	1.2943	14 43.4	0.7473$_n$	5.588
9	15.1	0.3502	+0.457	0.9174	19 24.8	1.2949	14 39.6	0.7393$_n$	−5.487
10	15.1	0.3530	0.467	0.9179	19 26.5	1.2955	14 35.8	0.7311$_n$	5.384
11	15.2	0.3557	0.476	0.9184	19 28.3	1.2962	14 32.0	0.7226$_n$	5.280
12	15.3	0.3584	0.486	0.9190	19 30.0	1.2968	14 28.2	0.7139$_n$	5.175
13	15.3	0.3612	0.495	0.9197	19 31.8	1.2974	14 24.4	0.7049$_n$	5.069
14	15.4	0.3639	0.505	0.9204	19 33.6	1.2980	14 20.6	0.6956$_n$	4.961
15	15.5	0.3667	+0.515	0.9211	19 35.3	1.2986	14 16.9	0.6859$_n$	−4.852
16	15.5	0.3694	0.525	0.9219	19 37.1	1.2991	14 13.1	0.6759$_n$	4.741
17	15.6	0.3721	0.535	0.9227	19 38.9	1.2997	14 9.4	0.6655$_n$	4.629
18	15.7	0.3749	0.545	0.9236	19 40.6	1.3003	14 5.7	0.6547$_n$	4.515
19	15.7	0.3776	0.555	0.9245	19 42.4	1.3008	14 2.0	0.6435$_n$	4.400
20	15.8	0.3803	0.566	0.9254	19 44.2	1.3014	13 58.3	0.6320$_n$	4.285
21	15.9	0.3831	+0.576	0.9264	19 46.0	1.3019	13 54.6	0.6199$_n$	−4.168
22	15.9	0.3858	0.586	0.9274	19 47.8	1.3025	13 50.9	0.6073$_n$	4.049
23	16.0	0.3886	0.597	0.9285	19 49.5	1.3030	13 47.3	0.5944$_n$	3.930
24	16.1	0.3913	0.607	0.9297	19 51.3	1.3035	13 43.6	0.5809$_n$	3.810
25	16.1	0.3940	0.618	0.9309	19 53.1	1.3040	13 40.0	0.5669$_n$	3.689
26	16.2	0.3968	0.628	0.9322	19 54.9	1.3044	13 36.3	0.5523$_n$	3.567
27	16.3	0.3995	+0.639	0.9335	19 56.6	1.3049	13 32.7	0.5369$_n$	−3.443
28	16.3	0.4023	0.650	0.9348	19 58.4	1.3053	13 29.1	0.5210$_n$	3.319
29	16.4	0.4050	0.661	0.9362	20 0.2	1.3058	13 25.4	0.5045$_n$	3.195
30	16.5	0.4077	0.672	0.9376	20 1.9	1.3062	13 21.8	0.4870$_n$	3.069
31	16.5	0.4105	0.683	0.9391	20 3.6	1.3066	13 18.2	0.4686$_n$	2.942
Juni 1	16.6	0.4132	0.694	0.9407	20 5.4	1.3070	13 14.7	0.4493$_n$	2.814
2	16.6	0.4159	+0.705	0.9422	20 7.1	1.3073	13 11.1	0.4291$_n$	−2.686
3	16.7	0.4187	0.716	0.9438	20 8.8	1.3077	13 7.5	0.4077$_n$	2.557
4	16.8	0.4214	0.727	0.9455	20 10.5	1.3080	13 3.9	0.3852$_n$	2.428
5	16.8	0.4242	0.739	0.9472	20 12.1	1.3084	13 0.4	0.3614$_n$	2.298
6	16.9	0.4269	0.750	0.9490	20 13.8	1.3087	12 56.8	0.3359$_n$	2.167
7	17.0	0.4296	0.761	0.9508	20 15.4	1.3090	12 53.3	0.3086$_n$	2.035
8	17.0	0.4324	+0.773	0.9527	20 17.1	1.3092	12 49.7	0.2794$_n$	−1.903
9	17.1	0.4351	0.784	0.9546	20 18.7	1.3095	12 46.2	0.2482$_n$	1.771
10	17.2	0.4378	0.796	0.9565	20 20.3	1.3097	12 42.7	0.2143$_n$	1.638
11	17.2	0.4406	0.807	0.9584	20 21.9	1.3099	12 39.1	0.1775$_n$	1.505
12	17.3	0.4433	0.819	0.9604	20 23.4	1.3101	12 35.6	0.1374$_n$	1.372
13	17.4	0.4461	+0.830	0.9625	20 25.0	1.3103	12 32.1	0.0927$_n$	−1.238

Tag		0h Welt-Zeit								
		f'	g'	G'	Allgemeine Präzession seit 1930.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1930		in 0.″001	in 0.″01				in 0.″01	23° 27′		in 0.″01
Mai	3	+ 1	+11	5.ʰ8	+16.″78	−10.″20	+ 1	1.″73	+7.″79	−11
	4	+ 8	11	3.9	16.91	10.19	+14	1.73	7.78	− 9
	5	+14	10	1.9	17.05	10.18	+22	1.76	7.76	− 5
	6	+16	10	23.9	17.19	10.17	+26	1.80	7.75	0
	7	+14	11	21.9	17.33	10.15	+23	1.84	7.74	+ 5
	8	+ 9	11	20.2	17.47	10.14	+15	1.86	7.72	+ 9
	9	+ 3	+11	18.7	+17.60	−10.13	+ 5	1.86	+7.71	+11
	10	− 4	10	17.1	17.74	10.11	− 6	1.84	7.69	+10
	11	− 8	9	15.4	17.88	10.09	−14	1.79	7.68	+ 7
	12	−11	7	13.2	18.02	10.07	−18	1.73	7.67	+ 2
	13	−10	7	10.7	18.15	10.05	−17	1.67	7.65	− 2
	14	− 8	8	8.4	18.29	10.03	−12	1.61	7.64	− 7
	15	− 3	+ 9	6.7	+18.43	−10.00	− 5	1.57	+7.63	− 9
	16	+ 2	10	5.4	18.57	9.98	+ 4	1.55	7.61	−10
	17	+ 7	10	4.1	18.70	9.95	+12	1.54	7.60	− 9
	18	+11	10	2.8	18.84	9.92	+18	1.56	7.59	− 6
	19	+13	9	1.3	18.98	9.89	+20	1.58	7.58	− 3
	20	+12	8	23.4	19.12	9.86	+20	1.61	7.57	+ 1
	21	+ 9	+ 8	21.3	+19.25	− 9.83	+15	1.63	+7.55	+ 5
	22	+ 5	9	19.3	19.39	9.80	+ 8	1.65	7.54	+ 8
	23	− 1	10	17.6	19.53	9.77	− 2	1.66	7.53	+10
	24	− 8	11	16.2	19.67	9.73	−13	1.64	7.52	+10
	25	−14	12	14.7	19.80	9.70	−22	1.61	7.51	+ 8
	26	−17	12	13.3	19.94	9.66	−28	1.56	7.50	+ 4
	27	−18	+12	11.6	+20.08	− 9.62	−30	1.50	+7.49	− 1
	28	−15	12	10.0	20.22	9.58	−25	1.44	7.48	− 6
	29	− 9	11	8.2	20.35	9.54	−15	1.39	7.47	−10
	30	− 2	11	6.4	20.49	9.50	− 3	1.37	7.46	−11
	31	+ 6	11	4.5	20.63	9.46	+11	1.37	7.46	−10
Juni	1	+13	11	2.5	20.77	9.41	+21	1.40	7.45	− 7
	2	+16	+11	0.6	+20.91	− 9.37	+27	1.44	+7.44	− 2
	3	+16	11	22.6	21.04	9.32	+26	1.48	7.44	+ 4
	4	+12	11	20.9	21.18	9.28	+20	1.52	7.43	+ 8
	5	+ 6	11	19.3	21.32	9.23	+10	1.54	7.42	+11
	6	− 1	10	17.8	21.46	9.19	− 1	1.53	7.42	+10
	7	− 7	9	16.1	21.59	9.14	−11	1.50	7.41	+ 8
	8	−10	+ 8	14.0	+21.73	− 9.09	−16	1.45	+7.41	+ 4
	9	−11	7	11.5	21.87	9.04	−17	1.40	7.40	− 1
	10	− 9	8	9.1	22.01	8.99	−14	1.35	7.40	− 5
	11	− 4	9	7.3	22.14	8.94	− 7	1.32	7.40	− 8
	12	+ 1	10	5.8	22.28	8.89	+ 1	1.30	7.40	−10
	13	+ 6	+10	4.5	+22.42	− 8.84	+10	1.30	+7.40	− 9

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1930	h	"	"		h m		h m		"
Juni 13	17.4	0.4461	+0.830	0.9625	20 25.0	1.3103	12 32.1	0.0927$_n$	−1.238
14	17.4	0.4488	0.842	0.9646	20 26.5	1.3105	12 28.6	0.0426$_n$	1.103
15	17.5	0.4515	0.853	0.9667	20 28.0	1.3106	12 25.1	9.9859$_n$	0.968
16	17.6	0.4543	0.865	0.9689	20 29.5	1.3108	12 21.6	9.9206$_n$	0.833
17	17.6	0.4570	0.876	0.9710	20 30.9	1.3109	12 18.0	9.8439$_n$	0.698
18	17.7	0.4597	0.888	0.9732	20 32.4	1.3110	12 14.5	9.7505$_n$	0.563
19	17.8	0.4625	+0.899	0.9754	20 33.8	1.3110	12 11.0	9.6314$_n$	−0.428
20	17.8	0.4652	0.911	0.9777	20 35.2	1.3111	12 7.5	9.4654$_n$	0.292
21	17.9	0.4680	0.923	0.9800	20 36.5	1.3111	12 4.0	9.1931$_n$	0.156
22	18.0	0.4707	0.934	0.9823	20 37.9	1.3111	12 0.5	8.3222$_n$	−0.021
23	18.0	0.4734	0.946	0.9847	20 39.2	1.3111	11 57.0	9.0607	+0.115
24	18.1	0.4762	0.958	0.9870	20 40.5	1.3111	11 53.5	9.3997	0.251
25	18.2	0.4789	+0.969	0.9894	20 41.8	1.3110	11 50.0	9.5866	+0.386
26	18.2	0.4817	0.981	0.9918	20 43.0	1.3110	11 46.5	9.7168	0.521
27	18.3	0.4844	0.992	0.9942	20 44.3	1.3109	11 43.0	9.8169	0.656
28	18.4	0.4871	1.004	0.9967	20 45.5	1.3108	11 39.5	9.8982	0.791
29	18.4	0.4899	1.016	0.9991	20 46.7	1.3107	11 36.0	9.9666	0.926
30	18.5	0.4926	1.027	1.0016	20 47.8	1.3105	11 32.5	0.0257	1.061
Juli 1	18.6	0.4953	+1.039	1.0040	20 49.0	1.3104	11 29.0	0.0774	+1.195
2	18.6	0.4981	1.050	1.0065	20 50.1	1.3102	11 25.5	0.1235	1.329
3	18.7	0.5008	1.062	1.0090	20 51.2	1.3100	11 22.0	0.1649	1.462
4	18.8	0.5036	1.073	1.0115	20 52.2	1.3098	11 18.4	0.2028	1.595
5	18.8	0.5063	1.085	1.0140	20 53.3	1.3096	11 14.9	0.2375	1.728
6	18.9	0.5090	1.096	1.0165	20 54.3	1.3093	11 11.4	0.2697	1.861
7	18.9	0.5118	+1.107	1.0190	20 55.3	1.3090	11 7.9	0.2995	+1.993
8	19.0	0.5145	1.119	1.0215	20 56.2	1.3088	11 4.3	0.3272	2.124
9	19.1	0.5172	1.130	1.0240	20 57.2	1.3085	11 0.8	0.3531	2.255
10	19.1	0.5200	1.141	1.0265	20 58.1	1.3082	10 57.2	0.3775	2.385
11	19.2	0.5227	1.152	1.0290	20 59.0	1.3078	10 53.7	0.4004	2.514
12	19.3	0.5255	1.163	1.0315	20 59.9	1.3075	10 50.1	0.4219	2.642
13	19.3	0.5282	+1.174	1.0340	21 0.7	1.3071	10 46.6	0.4425	+2.770
14	19.4	0.5309	1.185	1.0365	21 1.6	1.3067	10 43.0	0.4619	2.897
15	19.5	0.5337	1.196	1.0389	21 2.4	1.3063	10 39.4	0.4804	3.023
16	19.5	0.5364	1.207	1.0414	21 3.2	1.3059	10 35.8	0.4980	3.148
17	19.6	0.5391	1.218	1.0439	21 3.9	1.3055	10 32.3	0.5149	3.273
18	19.7	0.5419	1.229	1.0463	21 4.7	1.3051	10 28.7	0.5311	3.397
19	19.7	0.5446	+1.240	1.0488	21 5.4	1.3046	10 25.1	0.5465	+3.520
20	19.8	0.5474	1.250	1.0512	21 6.1	1.3041	10 21.5	0.5613	3.642
21	19.9	0.5501	1.261	1.0536	21 6.8	1.3037	10 17.8	0.5755	3.763
22	19.9	0.5528	1.271	1.0560	21 7.5	1.3032	10 14.2	0.5892	3.883
23	20.0	0.5556	1.282	1.0584	21 8.1	1.3027	10 10.6	0.6023	4.002
24	20.1	0.5583	+1.292	1.0608	21 8.8	1.3021	10 6.9	0.6149	+4.120

Tag	f'	g'	G'	Allgemeine Präzession seit 1930.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
	0ʰ Welt-Zeit								
1930	in 0.001 (s)	in 0.01 (s)				in 0.01 (")	23° 27'		in 0.01 (")
Juni 13	+ 6	+10	4.5 (h)	+22.42 (")	−8.84 (")	+10	1.30 (")	+7.40 (")	− 9
14	+10	10	3.3	22.56	8.79	+16	1.32	7.40	− 7
15	+12	9	1.8	22.69	8.74	+20	1.35	7.40	− 4
16	+13	8	23.9	22.83	8.68	+20	1.39	7.40	0
17	+10	8	21.9	22.97	8.63	+17	1.43	7.40	+ 4
18	+ 6	9	19.8	23.11	8.58	+10	1.47	7.40	+ 8
19	0	+10	18.1	+23.24	−8.53	0	1.49	+7.40	+10
20	− 7	11	16.5	23.38	8.47	−11	1.50	7.40	+10
21	−13	12	15.1	23.52	8.42	−21	1.48	7.41	+ 9
22	−17	12	13.6	23.66	8.37	−28	1.45	7.41	+ 5
23	−19	12	12.1	23.80	8.32	−31	1.41	7.42	0
24	−17	12	10.6	23.93	8.26	−29	1.36	7.42	− 4
25	−13	+12	8.9	+24.07	−8.21	−20	1.32	+7.43	− 9
26	− 5	11	7.1	24.21	8.16	− 8	1.30	7.43	−11
27	+ 3	11	5.2	24.35	8.11	+ 5	1.31	7.44	−11
28	+11	11	3.2	24.48	8.05	+17	1.35	7.45	− 8
29	+15	11	1.1	24.62	8.00	+25	1.40	7.46	− 3
30	+17	11	23.2	24.76	7.95	+27	1.46	7.46	+ 2
Juli 1	+14	+12	21.5	+24.90	−7.90	+23	1.52	+7.47	+ 7
2	+ 9	12	19.9	25.03	7.85	+14	1.56	7.48	+10
3	+ 2	11	18.5	25.17	7.80	+ 4	1.57	7.49	+11
4	− 4	9	16.9	25.31	7.75	− 6	1.56	7.50	+ 9
5	− 8	8	14.9	25.45	7.70	−14	1.54	7.51	+ 5
6	−10	7	12.3	25.58	7.65	−16	1.50	7.53	0
7	− 9	+ 7	9.6	+25.72	−7.60	−14	1.46	+7.54	− 4
8	− 5	9	7.5	25.86	7.56	− 9	1.44	7.55	− 8
9	0	10	6.1	26.00	7.51	0	1.43	7.56	−10
10	+ 5	10	4.8	26.13	7.46	+ 8	1.44	7.58	−10
11	+ 9	10	3.6	26.27	7.42	+15	1.47	7.59	− 8
12	+12	9	2.2	26.41	7.37	+20	1.52	7.61	− 5
13	+13	+ 9	0.5	+26.55	−7.33	+21	1.57	+7.62	− 1
14	+12	8	22.6	26.68	7.29	+19	1.62	7.64	+ 3
15	+ 8	9	20.5	26.82	7.25	+13	1.68	7.65	+ 7
16	+ 2	9	18.6	26.96	7.20	+ 4	1.72	7.67	+ 9
17	− 4	11	16.9	27.10	7.16	− 7	1.74	7.69	+10
18	−11	12	15.5	27.24	7.13	−18	1.75	7.70	+ 9
19	−16	+12	14.1	+27.37	−7.09	−27	1.74	+7.72	+ 6
20	−20	13	12.6	27.51	7.05	−32	1.71	7.74	+ 2
21	−19	13	11.1	27.65	7.02	−31	1.68	7.76	− 3
22	−16	12	9.6	27.79	6.98	−25	1.65	7.78	− 7
23	− 9	12	8.0	27.92	6.95	−15	1.64	7.80	−10
24	− 1	+11	6.1	+28.06	−6.91	− 1	1.65	+7.82	−11

Reduktionsgrößen 1930

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1930									
Juli 24	20.1 h	0.5583 s	+1.292 s	1.0608	21 h 8.8 m	1.3021	10 h 6.9 m	0.6149	+4.120
25	20.1	0.5611	1.303	1.0632	21 9.4	1.3016	10 3.3	0.6270	4.236
26	20.2	0.5638	1.313	1.0655	21 10.0	1.3011	9 59.6	0.6386	4.351
27	20.3	0.5665	1.323	1.0678	21 10.6	1.3005	9 55.9	0.6498	4.465
28	20.3	0.5693	1.333	1.0701	21 11.2	1.3000	9 52.2	0.6607	4.578
29	20.4	0.5720	1.343	1.0724	21 11.7	1.2994	9 48.5	0.6712	4.690
30	20.5	0.5747	+1.353	1.0747	21 12.3	1.2988	9 44.8	0.6812	+4.800
31	20.5	0.5775	1.363	1.0770	21 12.8	1.2983	9 41.1	0.6910	4.909
Aug. 1	20.6	0.5802	1.373	1.0792	21 13.3	1.2977	9 37.4	0.7004	5.017
2	20.7	0.5830	1.382	1.0814	21 13.8	1.2971	9 33.6	0.7096	5.124
3	20.7	0.5857	1.392	1.0836	21 14.3	1.2965	9 29.9	0.7184	5.229
4	20.8	0.5884	1.401	1.0858	21 14.8	1.2959	9 26.1	0.7270	5.333
5	20.9	0.5912	+1.411	1.0880	21 15.2	1.2952	9 22.4	0.7352	+5.435
6	20.9	0.5939	1.420	1.0902	21 15.7	1.2946	9 18.6	0.7431	5.535
7	21.0	0.5966	1.430	1.0923	21 16.1	1.2940	9 14.8	0.7508	5.634
8	21.1	0.5994	1.439	1.0944	21 16.5	1.2934	9 11.0	0.7583	5.732
9	21.1	0.6021	1.448	1.0964	21 16.9	1.2928	9 7.1	0.7655	5.828
10	21.2	0.6049	1.457	1.0984	21 17.3	1.2921	9 3.3	0.7725	5.923
11	21.2	0.6076	+1.466	1.1004	21 17.7	1.2915	8 59.4	0.7793	+6.016
12	21.3	0.6103	1.475	1.1024	21 18.1	1.2909	8 55.6	0.7858	6.107
13	21.4	0.6131	1.484	1.1044	21 18.5	1.2902	8 51.7	0.7921	6.196
14	21.4	0.6158	1.493	1.1064	21 18.9	1.2896	8 47.8	0.7982	6.284
15	21.5	0.6185	1.501	1.1083	21 19.2	1.2890	8 43.9	0.8041	6.370
16	21.6	0.6213	1.510	1.1102	21 19.6	1.2884	8 40.0	0.8098	6.454
17	21.6	0.6240	+1.518	1.1120	21 19.9	1.2878	8 36.1	0.8154	+6.537
18	21.7	0.6268	1.527	1.1139	21 20.3	1.2871	8 32.2	0.8207	6.618
19	21.8	0.6295	1.535	1.1157	21 20.6	1.2865	8 28.2	0.8258	6.696
20	21.8	0.6322	1.543	1.1175	21 20.9	1.2859	8 24.3	0.8308	6.773
21	21.9	0.6350	1.551	1.1193	21 21.2	1.2853	8 20.3	0.8356	6.848
22	22.0	0.6377	1.559	1.1211	21 21.5	1.2848	8 16.3	0.8402	6.921
23	22.0	0.6405	+1.567	1.1228	21 21.9	1.2842	8 12.3	0.8446	+6.992
24	22.1	0.6432	1.575	1.1245	21 22.2	1.2836	8 8.3	0.8489	7.062
25	22.2	0.6459	1.583	1.1262	21 22.5	1.2830	8 4.3	0.8531	7.130
26	22.2	0.6487	1.591	1.1279	21 22.8	1.2825	8 0.2	0.8570	7.195
27	22.3	0.6514	1.599	1.1295	21 23.1	1.2819	7 56.2	0.8608	7.258
28	22.4	0.6541	1.606	1.1311	21 23.4	1.2814	7 52.1	0.8645	7.319
29	22.4	0.6569	+1.614	1.1327	21 23.7	1.2809	7 48.1	0.8679	+7.378
30	22.5	0.6596	1.621	1.1342	21 24.0	1.2804	7 44.0	0.8713	7.435
31	22.6	0.6624	1.629	1.1358	21 24.3	1.2799	7 39.9	0.8745	7.491
Sept. 1	22.6	0.6651	1.636	1.1373	21 24.5	1.2794	7 35.8	0.8776	7.544
2	22.7	0.6678	1.644	1.1388	21 24.8	1.2790	7 31.7	0.8805	7.595
3	22.8	0.6706	+1.651	1.1403	21 25.1	1.2785	7 27.5	0.8833	+7.643

Tag	f'	g'	G'	Allgemeine Präzession seit 1930.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
	0h Welt-Zeit								
1930	in 0.001 s	in 0.01 "				in 0.01 "	23° 27'		in 0.01 "
Juli 24	− 1	+11	6.1 h	+28.06 "	−6.91 "	− 1	1.65 "	+7.82 "	−11
25	+ 7	10	4.2	28.20	6.88	+12	1.69	7.84	− 9
26	+13	10	1.9	28.34	6.85	+21	1.75	7.86	− 5
27	+16	10	23.8	28.47	6.82	+26	1.82	7.88	+ 1
28	+15	11	21.9	28.61	6.80	+24	1.89	7.90	+ 6
29	+11	12	20.4	28.75	6.77	+17	1.95	7.92	+ 9
30	+ 4	+11	19.0	+28.89	−6.74	+ 7	1.98	+7.94	+11
31	− 2	10	17.5	29.02	6.72	− 3	1.99	7.96	+10
Aug. 1	− 7	8	15.8	29.16	6.70	−11	1.98	7.98	+ 7
2	− 9	6	13.3	29.30	6.68	−15	1.95	8.00	+ 2
3	− 9	6	10.3	29.44	6.66	−14	1.93	8.02	− 3
4	− 6	8	7.9	29.57	6.64	− 9	1.91	8.04	− 7
5	− 1	+ 9	6.3	+29.71	−6.62	− 2	1.90	+8.07	− 9
6	+ 4	11	5.0	29.85	6.61	+ 7	1.91	8.09	−10
7	+ 9	11	3.8	29.99	6.59	+15	1.95	8.11	− 9
8	+12	10	2.5	30.12	6.58	+20	2.00	8.13	− 6
9	+14	9	1.0	30.26	6.57	+22	2.05	8.15	− 2
10	+13	9	23.2	30.40	6.56	+21	2.12	8.17	+ 2
11	+10	+ 8	21.3	+30.54	−6.55	+16	2.17	+8.19	+ 6
12	+ 5	9	19.3	30.68	6.54	+ 8	2.22	8.22	+ 9
13	− 2	10	17.6	30.81	6.53	− 3	2.26	8.24	+10
14	− 9	11	16.0	30.95	6.53	−14	2.27	8.26	+10
15	−14	12	14.5	31.09	6.52	−24	2.27	8.28	+ 7
16	−19	13	13.1	31.23	6.52	−30	2.25	8.30	+ 4
17	−20	+13	11.6	+31.36	−6.52	−32	2.22	+8.32	− 1
18	−17	13	10.1	31.50	6.52	−28	2.20	8.34	− 6
19	−12	12	8.6	31.64	6.52	−19	2.18	8.37	−10
20	− 4	11	6.9	31.78	6.53	− 7	2.19	8.39	−11
21	+ 4	10	5.1	31.91	6.53	+ 6	2.22	8.41	−10
22	+10	9	2.9	32.05	6.54	+17	2.27	8.43	− 6
23	+14	+ 9	0.6	+32.19	−6.54	+23	2.34	+8.45	− 1
24	+14	10	22.4	32.33	6.55	+23	2.41	8.46	+ 4
25	+11	11	20.7	32.46	6.56	+18	2.47	8.48	+ 8
26	+ 6	11	19.3	32.60	6.57	+ 9	2.51	8.50	+11
27	− 1	11	17.9	32.74	6.58	− 1	2.53	8.52	+11
28	− 6	9	16.3	32.88	6.59	−10	2.52	8.54	+ 8
29	− 9	+ 7	14.2	+33.01	−6.61	−14	2.49	+8.56	+ 4
30	− 9	6	11.2	33.15	6.62	−15	2.46	8.57	− 1
31	− 7	7	8.5	33.29	6.64	−11	2.43	8.59	− 6
Sept. 1	− 2	9	6.6	33.43	6.66	− 4	2.41	8.61	− 9
2	+ 3	10	5.3	33.57	6.67	+ 5	2.42	8.62	−10
3	+ 8	+11	4.0	+33.70	−6.69	+13	2.44	+8.64	− 9

Tag	0h Welt-Zeit								
	St-Zt Grw.	t	f_e	log g	G	log h	H	log i	i
1930	h	m	s		h m		h m		s
Sept. 3	22.8	0.6706	+1.651	1.1403	21 25.1	1.2785	7 27.5	0.8833	+7.643
4	22.8	0.6733	1.658	1.1417	21 25.4	1.2781	7 23.4	0.8859	7.689
5	22.9	0.6760	1.665	1.1431	21 25.7	1.2777	7 19.3	0.8884	7.734
6	23.0	0.6788	1.672	1.1445	21 26.0	1.2773	7 15.1	0.8908	7.777
7	23.0	0.6815	1.679	1.1459	21 26.3	1.2769	7 10.9	0.8930	7.817
8	23.1	0.6843	1.686	1.1473	21 26.6	1.2765	7 6.8	0.8951	7.854
9	23.2	0.6870	+1.693	1.1486	21 26.9	1.2762	7 2.6	0.8970	+7.889
10	23.2	0.6897	1.700	1.1499	21 27.2	1.2759	6 58.4	0.8988	7.922
11	23.3	0.6925	1.707	1.1512	21 27.5	1.2756	6 54.2	0.9006	7.954
12	23.4	0.6952	1.714	1.1525	21 27.8	1.2753	6 50.0	0.9022	7.983
13	23.4	0.6979	1.721	1.1538	21 28.1	1.2750	6 45.8	0.9036	8.009
14	23.5	0.7007	1.728	1.1551	21 28.4	1.2748	6 41.5	0.9049	8.033
15	23.5	0.7034	+1.734	1.1563	21 28.7	1.2746	6 37.3	0.9061	+8.055
16	23.6	0.7062	1.741	1.1575	21 29.0	1.2744	6 33.1	0.9071	8.074
17	23.7	0.7089	1.748	1.1587	21 29.4	1.2742	6 28.8	0.9080	8.091
18	23.7	0.7116	1.754	1.1599	21 29.7	1.2741	6 24.6	0.9088	8.106
19	23.8	0.7144	1.761	1.1610	21 30.0	1.2740	6 20.3	0.9094	8.118
20	23.9	0.7171	1.768	1.1621	21 30.4	1.2739	6 16.1	0.9100	8.128
21	23.9	0.7199	+1.774	1.1633	21 30.7	1.2738	6 11.8	0.9104	+8.136
22	0.0	0.7226	1.781	1.1644	21 31.1	1.2737	6 7.6	0.9107	8.142
23	0.1	0.7253	1.788	1.1655	21 31.4	1.2737	6 3.3	0.9109	8.145
24	0.1	0.7281	1.794	1.1666	21 31.8	1.2737	5 59.0	0.9109	8.146
25	0.2	0.7308	1.801	1.1677	21 32.2	1.2737	5 54.7	0.9108	8.144
26	0.3	0.7335	1.808	1.1687	21 32.5	1.2737	5 50.5	0.9106	8.139
27	0.3	0.7363	+1.814	1.1698	21 32.9	1.2738	5 46.2	0.9102	+8.132
28	0.4	0.7390	1.821	1.1708	21 33.3	1.2739	5 41.9	0.9098	8.124
29	0.5	0.7418	1.828	1.1719	21 33.7	1.2740	5 37.6	0.9092	8.113
30	0.5	0.7445	1.834	1.1729	21 34.1	1.2741	5 33.4	0.9084	8.099
Okt. 1	0.6	0.7472	1.841	1.1739	21 34.5	1.2743	5 29.1	0.9076	8.083
2	0.7	0.7500	1.848	1.1749	21 34.9	1.2745	5 24.8	0.9066	8.065
3	0.7	0.7527	+1.854	1.1759	21 35.4	1.2747	5 20.5	0.9055	+8.044
4	0.8	0.7554	1.861	1.1769	21 35.8	1.2749	5 16.3	0.9042	8.021
5	0.9	0.7582	1.868	1.1778	21 36.3	1.2752	5 12.0	0.9028	7.995
6	0.9	0.7609	1.875	1.1788	21 36.7	1.2754	5 7.7	0.9013	7.967
7	1.0	0.7637	1.882	1.1798	21 37.2	1.2757	5 3.5	0.8997	7.937
8	1.1	0.7664	1.889	1.1807	21 37.6	1.2761	4 59.2	0.8978	7.904
9	1.1	0.7691	+1.896	1.1817	21 38.1	1.2764	4 55.0	0.8959	+7.869
10	1.2	0.7719	1.903	1.1827	21 38.6	1.2767	4 50.7	0.8938	7.831
11	1.3	0.7746	1.910	1.1836	21 39.1	1.2771	4 46.5	0.8916	7.791
12	1.3	0.7773	1.917	1.1845	21 39.5	1.2775	4 42.2	0.8892	7.749
13	1.4	0.7801	1.924	1.1854	21 40.0	1.2779	4 38.0	0.8868	7.705
14	1.5	0.7828	+1.931	1.1863	21 40.5	1.2784	4 33.7	0.8841	+7.658

Tag	f'	g'	G'	Allgemeine Präzession seit 1930.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
	0h Welt-Zeit								
1930	in 0.001	in 0.01				in 0.01	23° 27'		in 0.01
Sept. 3	+ 8	+11	4.0	+33.70	−6.69	+13	2.44	+8.64	− 9
4	+12	11	2.7	33.84	6.71	+20	2.47	8.65	− 7
5	+14	10	1.4	33.98	6.73	+23	2.52	8.67	− 4
6	+14	9	23.7	34.12	6.75	+23	2.58	8.68	+ 1
7	+12	9	21.9	34.25	6.78	+19	2.63	8.70	+ 5
8	+ 7	9	20.0	34.39	6.80	+12	2.67	8.71	+ 8
9	+ 1	+10	18.3	+34.53	−6.82	+ 2	2.71	+8.72	+10
10	− 6	11	16.6	34.67	6.85	− 9	2.72	8.73	+10
11	−12	11	15.1	34.80	6.87	−20	2.71	8.75	+ 8
12	−17	12	13.5	34.94	6.90	−27	2.69	8.76	+ 5
13	−19	12	12.1	35.08	6.92	−31	2.65	8.77	0
14	−18	12	10.5	35.22	6.95	−29	2.61	8.78	− 5
15	−13	+12	9.0	+35.35	−6.98	−22	2.58	+8.79	− 9
16	− 7	12	7.5	35.49	7.01	−11	2.56	8.80	−11
17	+ 1	11	5.8	35.63	7.03	+ 2	2.57	8.80	−11
18	+ 8	9	3.8	35.77	7.06	+13	2.61	8.81	− 8
19	+12	9	1.4	35.90	7.09	+20	2.66	8.82	− 3
20	+14	9	22.9	36.04	7.12	+22	2.72	8.82	+ 2
21	+11	+10	21.1	+36.18	−7.15	+18	2.77	+8.83	+ 7
22	+ 6	11	19.4	36.32	7.18	+10	2.81	8.83	+10
23	0	11	18.0	36.45	7.21	0	2.82	8.84	+11
24	− 6	10	16.5	36.59	7.24	− 9	2.80	8.84	+ 9
25	− 9	8	14.7	36.73	7.27	−15	2.76	8.84	+ 5
26	−10	7	12.2	36.87	7.30	−17	2.71	8.85	0
27	− 8	+ 7	9.3	+37.01	−7.33	−13	2.66	+8.85	− 5
28	− 4	9	7.2	37.14	7.35	− 6	2.63	8.85	− 8
29	+ 2	10	5.6	37.28	7.38	+ 2	2.61	8.85	−10
30	+ 7	11	4.3	37.42	7.41	+12	2.61	8.85	−10
Okt. 1	+12	11	3.1	37.56	7.44	+19	2.63	8.85	− 8
2	+14	10	1.7	37.69	7.47	+23	2.66	8.85	− 5
3	+15	+10	0.2	+37.83	−7.49	+24	2.69	+8.84	− 1
4	+13	9	22.5	37.97	7.52	+21	2.73	8.84	+ 3
5	+ 9	9	20.7	38.11	7.55	+15	2.76	8.84	+ 7
6	+ 3	10	18.9	38.24	7.57	+ 5	2.78	8.83	+ 9
7	− 3	10	17.3	38.38	7.60	− 5	2.78	8.83	+10
8	−10	11	15.7	38.52	7.62	−16	2.76	8.82	+ 9
9	−15	+11	14.1	+38.66	−7.64	−24	2.73	+8.82	+ 6
10	−18	12	12.6	38.79	7.67	−29	2.68	8.81	+ 2
11	−18	12	10.9	38.93	7.69	−29	2.62	8.80	− 3
12	−14	12	9.4	39.07	7.71	−23	2.57	8.80	− 7
13	− 8	12	7.8	39.21	7.73	−14	2.53	8.79	−10
14	− 1	+11	6.2	+39.34	−7.75	− 1	2.51	+8.78	−11

Tag		0h Welt-Zeit								
		St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1930										
		h	s	s		h m		h m		"
Okt.	14	1.5	0.7828	+1.931	1.1863	21 40.5	1.2784	4 33.7	0.8841	+7.658
	15	1.5	0.7856	1.939	1.1872	21 41.0	1.2788	4 29.5	0.8813	7.609
	16	1.6	0.7883	1.946	1.1882	21 41.6	1.2793	4 25.3	0.8783	7.557
	17	1.7	0.7910	1.953	1.1891	21 42.1	1.2798	4 21.1	0.8752	7.503
	18	1.7	0.7938	1.961	1.1901	21 42.6	1.2803	4 16.9	0.8720	7.447
	19	1.8	0.7965	1.969	1.1911	21 43.1	1.2808	4 12.7	0.8686	7.389
	20	1.8	0.7992	+1.976	1.1921	21 43.7	1.2813	4 8.5	0.8650	+7.329
	21	1.9	0.8020	1.984	1.1931	21 44.3	1.2819	4 4.3	0.8613	7.266
	22	2.0	0.8047	1.992	1.1941	21 44.9	1.2824	4 0.1	0.8574	7.201
	23	2.0	0.8075	2.000	1.1951	21 45.4	1.2830	3 56.0	0.8533	7.133
	24	2.1	0.8102	2.008	1.1961	21 46.0	1.2836	3 51.8	0.8490	7.063
	25	2.2	0.8129	2.016	1.1972	21 46.6	1.2842	3 47.7	0.8446	6.992
	26	2.2	0.8157	+2.024	1.1982	21 47.2	1.2848	3 43.5	0.8400	+6.919
	27	2.3	0.8184	2.032	1.1992	21 47.8	1.2854	3 39.4	0.8352	6.843
	28	2.4	0.8212	2.040	1.2002	21 48.4	1.2860	3 35.3	0.8302	6.764
	29	2.4	0.8239	2.049	1.2013	21 49.0	1.2866	3 31.2	0.8250	6.684
	30	2.5	0.8266	2.057	1.2023	21 49.6	1.2873	3 27.1	0.8197	6.602
	31	2.6	0.8294	2.066	1.2034	21 50.2	1.2879	3 23.0	0.8141	6.518
Nov.	1	2.6	0.8321	+2.074	1.2044	21 50.9	1.2885	3 18.9	0.8083	+6.432
	2	2.7	0.8348	2.083	1.2055	21 51.5	1.2892	3 14.9	0.8023	6.343
	3	2.8	0.8376	2.092	1.2066	21 52.1	1.2898	3 10.8	0.7961	6.253
	4	2.8	0.8403	2.101	1.2078	21 52.7	1.2905	3 6.8	0.7897	6.161
	5	2.9	0.8431	2.110	1.2089	21 53.4	1.2912	3 2.7	0.7830	6.067
	6	3.0	0.8458	2.119	1.2100	21 54.0	1.2918	2 58.7	0.7760	5.971
	7	3.0	0.8485	+2.128	1.2112	21 54.6	1.2925	2 54.7	0.7689	+5.873
	8	3.1	0.8513	2.137	1.2123	21 55.3	1.2931	2 50.7	0.7614	5.773
	9	3.2	0.8540	2.147	1.2135	21 55.9	1.2938	2 46.7	0.7537	5.671
	10	3.2	0.8567	2.156	1.2147	21 56.6	1.2944	2 42.7	0.7456	5.567
	11	3.3	0.8595	2.166	1.2159	21 57.2	1.2951	2 38.7	0.7374	5.462
	12	3.4	0.8622	2.176	1.2171	21 57.8	1.2957	2 34.7	0.7288	5.355
	13	3.4	0.8650	+2.186	1.2184	21 58.5	1.2964	2 30.8	0.7199	+5.247
	14	3.5	0.8677	2.196	1.2196	21 59.1	1.2970	2 26.8	0.7107	5.137
	15	3.6	0.8704	2.206	1.2209	21 59.8	1.2976	2 22.9	0.7011	5.025
	16	3.6	0.8732	2.216	1.2222	22 0.4	1.2982	2 18.9	0.6912	4.911
	17	3.7	0.8759	2.226	1.2235	22 1.0	1.2989	2 15.0	0.6809	4.796
	18	3.8	0.8786	2.236	1.2248	22 1.7	1.2995	2 11.1	0.6702	4.679
	19	3.8	0.8814	+2.246	1.2261	22 2.3	1.3001	2 7.2	0.6591	+4.561
	20	3.9	0.8841	2.257	1.2275	22 3.0	1.3006	2 3.3	0.6476	4.442
	21	4.0	0.8869	2.267	1.2288	22 3.6	1.3012	1 59.4	0.6356	4.321
	22	4.0	0.8896	2.278	1.2302	22 4.2	1.3018	1 55.6	0.6231	4.199
	23	4.1	0.8923	2.289	1.2316	22 4.8	1.3023	1 51.7	0.6101	4.075
	24	4.1	0.8951	+2.300	1.2330	22 5.5	1.3029	1 47.8	0.5966	+3.950

Tag	f'	g'	G'	Allgemeine Präzession seit 1930.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
	0h Welt-Zeit								
1930	in 0.001	in 0.01				in 0.01	23° 27'		in 0.01
Okt. 14	− 1	+11	6.2	+39.34	−7.75	− 1	2.51	+8.78	−11
15	+ 6	10	4.4	39.48	7.77	+10	2.52	8.77	− 9
16	+12	9	2.2	39.62	7.79	+19	2.55	8.76	− 5
17	+14	9	23.7	39.76	7.80	+22	2.59	8.75	+ 1
18	+12	10	21.6	39.90	7.82	+20	2.63	8.74	+ 6
19	+ 8	11	19.8	40.03	7.83	+12	2.66	8.73	+10
20	+ 1	+11	18.3	+40.17	−7.84	+ 2	2.66	+8.72	+11
21	− 5	10	16.8	40.31	7.86	− 8	2.64	8.71	+10
22	− 9	9	15.1	40.45	7.87	−15	2.59	8.69	+ 7
23	−11	8	13.0	40.58	7.88	−18	2.53	8.68	+ 2
24	−10	7	10.3	40.72	7.88	−16	2.46	8.67	− 3
25	− 6	8	8.0	40.86	7.89	−10	2.41	8.65	− 7
26	− 1	+10	6.2	+41.00	−7.89	− 1	2.37	+8.64	−10
27	+ 5	11	4.8	41.13	7.90	+ 8	2.35	8.63	−10
28	+10	11	3.5	41.27	7.90	+17	2.35	8.61	− 9
29	+14	11	2.2	41.41	7.90	+22	2.36	8.60	− 6
30	+15	10	0.7	41.55	7.90	+24	2.39	8.58	− 2
31	+14	9	23.0	41.68	7.90	+23	2.41	8.57	+ 2
Nov. 1	+10	+ 9	21.2	+41.82	−7.89	+17	2.43	+8.55	+ 6
2	+ 5	9	19.4	41.96	7.89	+ 9	2.44	8.54	+ 9
3	− 1	10	17.7	42.10	7.88	− 2	2.44	8.52	+10
4	− 8	11	16.2	42.23	7.87	−12	2.41	8.51	+10
5	−13	11	14.6	42.37	7.86	−22	2.37	8.49	+ 7
6	−17	11	13.1	42.51	7.85	−28	2.32	8.47	+ 3
7	−18	+12	11.4	+42.65	−7.84	−29	2.25	+8.46	− 2
8	−15	12	9.8	42.78	7.82	−25	2.19	8.44	− 6
9	−10	12	8.2	42.92	7.81	−16	2.13	8.42	−10
10	− 3	11	6.6	43.06	7.79	− 4	2.10	8.41	−11
11	+ 5	10	4.8	43.20	7.77	+ 8	2.10	8.39	−10
12	+11	10	2.8	43.34	7.75	+18	2.12	8.38	− 6
13	+14	+ 9	0.5	+43.47	−7.72	+23	2.15	+8.36	− 1
14	+14	10	22.4	43.61	7.70	+22	2.19	8.35	+ 4
15	+10	11	20.5	43.75	7.67	+16	2.21	8.33	+ 9
16	+ 4	11	18.9	43.89	7.64	+ 6	2.22	8.31	+11
17	− 3	11	17.4	44.02	7.61	− 5	2.20	8.30	+11
18	− 8	10	15.7	44.16	7.58	−14	2.16	8.28	+ 8
19	−12	+ 8	13.6	+44.30	−7.55	−19	2.10	+8.27	+ 3
20	−11	8	11.2	44.44	7.52	−19	2.03	8.25	− 2
21	− 8	8	8.8	44.57	7.48	−14	1.97	8.24	− 6
22	− 3	9	6.9	44.71	7.45	− 5	1.92	8.22	− 9
23	+ 3	10	5.3	44.85	7.41	+ 4	1.89	8.21	−10
24	+ 8	+11	4.0	+44.99	−7.37	+14	1.89	+8.19	− 9

Tag	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
	0h Welt-Zeit								
1930									
	h	s	s		h m		h m		s
Nov. 24	4.1	0.8951	+2.300	1.2330	22 5.5	1.3029	1 47.8	0.5966	+3.950
25	4.2	0.8978	2.311	1.2344	22 6.1	1.3034	1 44.0	0.5824	3.823
26	4.3	0.9006	2.322	1.2359	22 6.7	1.3039	1 40.1	0.5676	3.695
27	4.3	0.9033	2.333	1.2373	22 7.3	1.3044	1 36.3	0.5523	3.567
28	4.4	0.9060	2.344	1.2388	22 7.9	1.3049	1 32.5	0.5362	3.437
29	4.5	0.9088	2.355	1.2403	22 8.5	1.3054	1 28.7	0.5192	3.305
30	4.5	0.9115	+2.366	1.2418	22 9.0	1.3058	1 24.8	0.5015	+3.173
Dez. 1	4.6	0.9142	2.378	1.2433	22 9.6	1.3063	1 21.0	0.4830	3.041
2	4.7	0.9170	2.389	1.2448	22 10.2	1.3067	1 17.2	0.4634	2.907
3	4.7	0.9197	2.401	1.2464	22 10.7	1.3071	1 13.4	0.4426	2.771
4	4.8	0.9225	2.412	1.2479	22 11.3	1.3075	1 9.7	0.4208	2.635
5	4.9	0.9252	2.424	1.2495	22 11.8	1.3079	1 5.9	0.3976	2.498
6	4.9	0.9279	+2.436	1.2510	22 12.4	1.3082	1 2.1	0.3729	+2.360
7	5.0	0.9307	2.447	1.2526	22 12.9	1.3086	0 58.3	0.3465	2.221
8	5.1	0.9334	2.459	1.2542	22 13.4	1.3089	0 54.5	0.3185	2.082
9	5.1	0.9361	2.471	1.2558	22 13.9	1.3092	0 50.8	0.2882	1.942
10	5.2	0.9389	2.483	1.2574	22 14.4	1.3094	0 47.0	0.2558	1.802
11	5.3	0.9416	2.495	1.2590	22 14.9	1.3097	0 43.3	0.2204	1.661
12	5.3	0.9444	+2.507	1.2606	22 15.4	1.3099	0 39.5	0.1816	+1.519
13	5.4	0.9471	2.519	1.2623	22 15.9	1.3101	0 35.8	0.1386	1.376
14	5.5	0.9498	2.531	1.2639	22 16.4	1.3103	0 32.0	0.0910	1.233
15	5.5	0.9526	2.543	1.2655	22 16.8	1.3105	0 28.3	0.0374	1.090
16	5.6	0.9553	2.555	1.2672	22 17.3	1.3107	0 24.5	9.9763	0.947
17	5.7	0.9580	2.567	1.2689	22 17.7	1.3108	0 20.8	9.9047	0.803
18	5.7	0.9608	+2.580	1.2706	22 18.2	1.3109	0 17.0	9.8189	+0.659
19	5.8	0.9635	2.592	1.2722	22 18.6	1.3110	0 13.3	9.7118	0.515
20	5.9	0.9663	2.604	1.2739	22 19.0	1.3111	0 9.6	9.5682	0.370
21	5.9	0.9690	2.616	1.2756	22 19.4	1.3111	0 5.8	9.3522	0.225
22	6.0	0.9717	2.628	1.2773	22 19.8	1.3111	0 2.1	8.9031	+0.080
23	6.1	0.9745	2.641	1.2790	22 20.1	1.3111	23 58.3	8.8062_n	−0.064
24	6.1	0.9772	+2.653	1.2807	22 20.5	1.3111	23 54.6	9.3201_n	−0.209
25	6.2	0.9800	2.665	1.2823	22 20.8	1.3111	23 50.9	9.5490_n	0.354
26	6.3	0.9827	2.677	1.2840	22 21.2	1.3110	23 47.1	9.6981_n	0.499
27	6.3	0.9854	2.689	1.2857	22 21.5	1.3109	23 43.4	9.8082_n	0.643
28	6.4	0.9882	2.702	1.2874	22 21.9	1.3108	23 39.6	9.8960_n	0.787
29	6.4	0.9909	2.714	1.2891	22 22.2	1.3107	23 35.9	9.9689_n	0.931
30	6.5	0.9936	+2.726	1.2907	22 22.5	1.3105	23 32.1	0.0314_n	−1.075
31	6.6	0.9964	2.738	1.2924	22 22.8	1.3103	23 28.4	0.0860_n	1.219
32	6.6	0.9991	+2.750	1.2941	22 23.1	1.3101	23 24.6	0.1342_n	−1.362

Tag	f′	g′	G′	Allgemeine Präzession seit 1930.0	Δψ	Δψ′	Wahre Schiefe	Δε	Δε′
1930	in 0.ˢ001	in 0.″01				in 0.″01	23° 27′		in 0.″01
Nov. 24	+ 8	+11	4.ʰ0	+44.ˢ99	−7.″37	+14	1.″89	+8.″19	− 9
25	+12	11	2.7	45.12	7.33	+20	1.90	8.18	− 7
26	+15	10	1.2	45.26	7.28	+24	1.92	8.17	− 3
27	+14	9	23.5	45.40	7.24	+23	1.95	8.16	+ 1
28	+11	9	21.7	45.54	7.20	+19	1.98	8.14	+ 5
29	+ 7	9	19.8	45.67	7.15	+11	2.00	8.13	+ 8
30	+ 1	+10	18.1	+45.81	−7.10	+ 1	2.00	+8.12	+10
Dez. 1	− 6	11	16.6	45.95	7.05	−10	1.99	8.11	+10
2	−12	11	15.0	46.09	7.00	−20	1.96	8.10	+ 8
3	−16	12	13.5	46.22	6.95	−27	1.91	8.09	+ 5
4	−18	12	12.0	46.36	6.90	−30	1.86	8.08	0
5	−16	12	10.4	46.50	6.85	−27	1.80	8.07	− 5
6	−12	+12	8.7	+46.64	−6.80	−19	1.75	+8.07	− 9
7	− 5	11	7.1	46.78	6.74	− 8	1.72	8.06	−11
8	+ 3	11	5.3	46.91	6.68	+ 5	1.71	8.05	−11
9	+10	10	3.4	47.05	6.63	+16	1.74	8.04	− 8
10	+14	10	1.2	47.19	6.57	+23	1.78	8.04	− 3
11	+15	10	23.1	47.33	6.51	+25	1.82	8.03	+ 2
12	+12	+11	21.2	+47.46	−6.45	+20	1.87	+8.03	+ 7
13	+ 7	11	19.5	47.60	6.39	+11	1.89	8.03	+10
14	0	11	18.0	47.74	6.34	0	1.89	8.02	+11
15	− 6	10	16.4	47.88	6.28	−10	1.87	8.02	+ 9
16	−10	8	14.4	48.01	6.21	−17	1.83	8.02	+ 5
17	−12	8	12.0	48.15	6.15	−19	1.77	8.02	0
18	−10	+ 8	9.5	+48.29	−6.09	−16	1.72	+8.02	− 5
19	− 5	9	7.5	48.43	6.03	− 8	1.69	8.02	− 8
20	+ 1	10	5.9	48.56	5.97	+ 1	1.67	8.02	−10
21	+ 7	11	4.4	48.70	5.91	+11	1.67	8.02	−10
22	+11	11	3.1	48.84	5.84	+19	1.70	8.02	− 8
23	+14	10	1.6	48.98	5.78	+23	1.73	8.02	− 4
24	+14	+ 9	0.0	+49.11	−5.72	+24	1.78	+8.03	0
25	+12	9	22.2	49.25	5.66	+20	1.82	8.03	+ 4
26	+ 8	9	20.3	49.39	5.59	+13	1.86	8.04	+ 7
27	+ 2	10	18.6	49.53	5.53	+ 4	1.88	8.04	+ 9
28	− 4	10	17.0	49.67	5.47	− 7	1.89	8.05	+10
29	−11	11	15.4	49.80	5.41	−17	1.89	8.06	+ 9
30	−16	+12	13.9	+49.94	−5.35	−26	1.86	+8.06	+ 6
31	−19	12	12.4	50.08	5.29	−30	1.83	8.07	+ 1
32	−18	+12	10.9	+50.22	−5.23	−30	1.78	+8.08	− 3

0ʰ Welt-Zeit

Reduktionsgrößen 1930

für 12^h Sternzeit Greenwich

Welt-Zeit	*t*	*A*		*A'*	*B*		*B'*	*C*		*D*	
1930				in 0.00001			in 0.001				
Jan. 0.225	−0.0024	−0.20551	387	+157	−6.612	12	+ 93	− 2.962	329	+20.214	61
1.222	+0.0004	0.20164	386	+283	6.624	13	+ 74	3.291	328	20.153	67
2.219	0.0031	0.19778	384	+359	6.637	13	+ 42	3.619	326	20.086	73
3.216	0.0059	0.19394	383	+371	6.650	14	+ 1	3.945	325	20.013	79
4.214	0.0086	0.19011	382	+305	6.664	14	− 41	4.270	324	19.934	86
5.211	0.0113	0.18629	380	+168	6.678	15	− 77	4.594	322	19.848	92
6.208	0.0140	−0.18249	379	− 26	−6.693	15	−100	− 4.916	321	+19.756	98
7.205	0.0168	0.17870	377	−248	6.708	16	−104	5.237	319	19.658	104
8.203	0.0195	0.17493	375	−452	6.724	17	− 87	5.556	318	19.554	111
9.200	0.0222	0.17118	373	−593	6.741	17	− 48	5.874	316	19.443	117
10.197	0.0250	0.16745	371	−638	6.758	18	0	6.190	313	19.326	122
11.195	0.0277	0.16374	369	−565	6.776	18	+ 51	6.503	311	19.204	128
12.192	0.0304	−0.16005	367	−380	−6.794	18	+ 91	− 6.814	309	+19.076	135
13.189	0.0332	0.15638	365	−123	6.812	19	+110	7.123	307	18.941	141
14.186	0.0359	0.15273	362	+152	6.831	20	+103	7.430	305	18.800	146
15.184	0.0386	0.14911	360	+385	6.851	20	+ 71	7.735	302	18.654	152
16.181	0.0413	0.14551	358	+527	6.871	21	+ 23	8.037	300	18.502	159
17.178	0.0441	0.14193	355	+548	6.892	21	− 29	8.337	297	18.343	164
18.175	0.0468	−0.13838	352	+459	−6.913	21	− 75	− 8.634	294	+18.179	170
19.173	0.0495	0.13486	349	+284	6.934	21	−102	8.928	291	18.009	175
20.170	0.0523	0.13137	347	+ 78	6.955	22	−104	9.219	289	17.834	181
21.167	0.0550	0.12790	344	−116	6.977	22	− 86	9.508	285	17.653	186
22.165	0.0577	0.12446	341	−246	6.999	23	− 50	9.793	282	17.467	192
23.162	0.0605	0.12105	338	−298	7.022	23	− 3	10.075	279	17.275	197
24.159	0.0632	−0.11767	336	−264	−7.045	24	+ 40	−10.354	275	+17.078	202
25.156	0.0659	0.11431	333	−165	7.069	24	+ 74	10.629	272	16.876	208
26.154	0.0687	0.11098	329	− 25	7.093	24	+ 95	10.901	269	16.668	213
27.151	0.0714	0.10769	326	+131	7.117	24	+ 96	11.170	265	16.455	218
28.148	0.0741	0.10443	323	+268	7.141	24	+ 82	11.435	262	16.237	223
29.145	0.0768	0.10120	320	+361	7.165	24	+ 55	11.697	258	16.014	228
30.143	0.0795	−0.09800	317	+399	−7.189	24	+ 16	−11.955	254	+15.786	233
31.140	0.0823	0.09483	314	+362	7.213	24	− 26	12.209	250	15.553	237
Febr. 1.137	0.0850	0.09169	310	+251	7.237	25	− 64	12.459	247	15.316	242
2.134	0.0878	0.08859	307	+ 76	7.262	24	− 93	12.706	242	15.074	247
3.132	0.0905	0.08552	304	−140	7.286	25	−103	12.948	238	14.827	251
4.129	0.0932	0.08248	301	−358	7.311	25	− 95	13.186	234	14.576	256
5.126	0.0960	−0.07947	298	−538	−7.336	24	− 65	−13.420	229	+14.320	260
6.124	0.0987	0.07649	295	−633	7.360	25	− 20	13.649	225	14.060	265
7.121	0.1014	0.07354	291	−614	7.385	24	+ 30	13.874	221	13.795	269
8.118	0.1041	0.07063	288	−484	7.409	24	+ 77	14.095	217	13.526	273
9.115	0.1069	0.06775	285	−260	7.433	24	+105	14.312	212	13.253	277
10.113	0.1096	−0.06490		+ 8	−7.457		+108	−14.524		+12.976	

Reduktionsgrößen 1930

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
1930				in 0.00001			in 0.001				
Febr. 10.113	0.1096	−0.06490	282	+ 8	−7.457	24	+108	−14.524	207	+12.976	281
11.110	0.1123	0.06208	279	+259	7.481	24	+ 87	14.731	203	12.695	284
12.107	0.1151	0.05929	276	+441	7.505	24	+ 44	14.934	198	12.411	288
13.104	0.1178	0.05653	273	+513	7.529	23	− 8	15.132	193	12.123	292
14.102	0.1205	0.05380	270	+471	7.552	23	− 58	15.325	188	11.831	296
15.099	0.1233	0.05110	267	+330	7.575	23	− 94	15.513	184	11.535	299
16.096	0.1260	−0.04843	264	+137	−7.598	23	−106	−15.697	179	+11.236	302
17.094	0.1287	0.04579	262	− 61	7.621	22	− 96	15.876	173	10.934	306
18.091	0.1315	0.04317	259	−211	7.643	22	− 65	16.049	169	10.628	309
19.088	0.1342	0.04058	255	−289	7.665	21	− 20	16.218	164	10.319	311
20.085	0.1369	0.03803	253	−280	7.686	21	+ 25	16.382	159	10.008	314
21.083	0.1396	0.03550	250	−199	7.707	20	+ 64	16.541	153	9.694	318
22.080	0.1424	−0.03300	248	− 64	−7.727	20	+ 90	−16.694	148	+ 9.376	320
23.077	0.1451	0.03052	245	+ 90	7.747	20	+ 99	16.842	143	9.056	323
24.074	0.1478	0.02807	243	+238	7.767	19	+ 90	16.985	138	8.733	325
25.072	0.1506	0.02564	241	+352	7.786	19	+ 67	17.123	132	8.408	328
26.069	0.1533	0.02323	239	+412	7.805	19	+ 29	17.255	127	8.080	330
27.066	0.1560	0.02084	236	+404	7.824	18	− 12	17.382	122	7.750	333
28.063	0.1588	−0.01848	234	+322	−7.842	18	− 51	−17.504	116	+ 7.417	335
März 1.061	0.1615	0.01614	233	+171	7.860	17	− 84	17.620	111	7.082	336
2.058	0.1642	0.01381	231	− 29	7.877	16	−103	17.731	105	6.746	338
3.055	0.1669	0.01150	228	−251	7.893	16	−102	17.836	100	6.408	341
4.053	0.1697	0.00922	227	−447	7.909	15	− 79	17.936	94	6.067	342
5.050	0.1724	0.00695	225	−580	7.924	14	− 38	18.030	89	5.725	343
6.047	0.1751	−0.00470	223	−613	−7.938	14	+ 12	−18.119	83	+ 5.382	345
7.044	0.1779	0.00247	222	−533	7.952	14	+ 60	18.202	78	5.037	346
8.042	0.1806	−0.00025	221	−350	7.966	13	+ 96	18.280	72	4.691	347
9.039	0.1833	+0.00196	219	−102	7.979	13	+110	18.352	67	4.344	349
10.036	0.1861	0.00415	218	+155	7.992	12	+ 99	18.419	61	3.995	350
11.033	0.1888	0.00633	217	+359	8.004	11	+ 63	18.480	55	3.645	350
12.031	0.1915	+0.00850	216	+472	−8.015	10	+ 13	−18.535	49	+ 3.295	351
13.028	0.1943	0.01066	216	+469	8.025	10	− 40	18.584	44	2.944	352
14.025	0.1970	0.01282	215	+360	8.035	9	− 81	18.628	38	2.592	353
15.023	0.1997	0.01497	214	+180	8.044	8	−105	18.666	33	2.239	353
16.020	0.2024	0.01711	214	− 21	8.052	8	−103	18.699	27	1.886	353
17.017	0.2052	0.01925	213	−192	8.060	7	− 79	18.726	22	1.533	354
18.014	0.2079	+0.02138	213	−294	−8.067	6	− 40	−18.748	16	+ 1.179	354
19.012	0.2106	0.02351	212	−314	8.073	6	+ 8	18.764	11	0.825	354
20.009	0.2134	0.02563	212	−247	8.079	5	+ 50	18.775	5	0.471	354
21.006	0.2161	0.02775	213	−124	8.084	5	+ 83	18.780	1	+ 0.117	353
22.003	0.2188	0.02988	213	+ 33	8.089	4	+ 97	18.779	7	− 0.236	353
23.001	0.2216	+0.03201		+190	−8.093		+ 96	−18.772		− 0.589	

Reduktionsgrößen 1930

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A'	B		B'	C		D	
1930	s			in 0.00001			in 0.001				
März 23.001	0.2216	+0.03201	213	+190	−8.093	3	+ 96	−18.772	12	− 0.589	353
23.998	0.2243	0.03414	213	+323	8.096	2	+ 76	18.760	18	0.942	353
24.995	0.2270	0.03627	214	+404	8.098	2	+ 45	18.742	24	1.295	352
25.993	0.2297	0.03841	214	+422	8.100	1	+ 5	18.718	29	1.647	351
26.990	0.2325	0.04055	214	+367	8.101	1	− 37	18.689	34	1.998	351
27.987	0.2352	0.04269	215	+244	8.102	0	− 72	18.655	40	2.349	350
28.984	0.2379	+0.04484	216	+ 61	−8.102	1	− 96	−18.615	45	− 2.699	348
29.982	0.2407	0.04700	217	−150	8.101	2	−104	18.570	51	3.047	347
30.979	0.2434	0.04917	219	−357	8.099	2	− 89	18.519	56	3.394	347
31.976	0.2461	0.05136	220	−513	8.097	3	− 56	18.463	62	3.741	345
April 1.973	0.2489	0.05356	220	−585	8.094	3	− 8	18.401	67	4.086	344
2.971	0.2516	0.05576	222	−549	8.091	4	+ 43	18.334	72	4.430	342
3.968	0.2543	+0.05798	223	−405	−8.087	4	+ 84	−18.262	78	− 4.772	340
4.965	0.2571	0.06021	225	−179	8.083	5	+108	18.184	83	5.112	339
5.962	0.2598	0.06246	225	+ 74	8.078	5	+107	18.101	88	5.451	337
6.960	0.2625	0.06471	227	+300	8.073	6	+ 78	18.013	93	5.788	335
7.957	0.2652	0.06698	230	+446	8.067	6	+ 33	17.920	99	6.123	333
8.954	0.2680	0.06928	232	+482	8.061	7	− 20	17.821	104	6.456	331
9.952	0.2707	+0.07160	233	+405	−8.054	8	− 69	−17.717	109	− 6.787	329
10.949	0.2734	0.07393	235	+241	8.046	8	−101	17.608	114	7.116	327
11.946	0.2762	0.07628	237	+ 33	8.038	9	−108	17.494	119	7.443	324
12.943	0.2789	0.07865	239	−160	8.029	9	− 93	17.375	124	7.767	322
13.941	0.2816	0.08104	241	−294	8.020	9	− 57	17.251	129	8.089	319
14.938	0.2844	0.08345	243	−345	8.011	10	− 11	17.122	134	8.408	317
15.935	0.2871	+0.08588	245	−307	−8.001	10	+ 35	−16.988	138	− 8.725	314
16.932	0.2898	0.08833	248	−195	7.991	10	+ 72	16.850	143	9.039	311
17.930	0.2925	0.09081	250	− 41	7.981	11	+ 95	16.707	149	9.350	308
18.927	0.2953	0.09331	253	+127	7.970	11	+ 99	16.558	153	9.658	305
19.924	0.2980	0.09584	255	+275	7.959	11	+ 87	16.405	158	9.963	302
20.922	0.3007	0.09839	258	+379	7.948	12	+ 58	16.247	162	10.265	299
21.919	0.3035	+0.10097	260	+420	−7.936	12	+ 21	−16.085	167	−10.564	296
22.916	0.3062	0.10357	263	+391	7.924	12	− 20	15.918	171	10.860	293
23.913	0.3089	0.10620	265	+291	7.912	13	− 59	15.747	176	11.153	289
24.911	0.3117	0.10885	268	+129	7.899	13	− 88	15.571	180	11.442	286
25.908	0.3144	0.11153	271	− 74	7.886	13	−102	15.391	184	11.728	283
26.905	0.3171	0.11424	273	−284	7.873	13	− 96	15.207	189	12.011	279
27.902	0.3199	+0.11697	276	−461	−7.860	13	− 70	−15.018	193	−12.290	275
28.900	0.3226	0.11973	279	−562	7.847	13	− 28	14.825	197	12.565	271
29.897	0.3253	0.12252	281	−563	7.834	14	+ 22	14.628	201	12.836	268
30.894	0.3280	0.12533	284	−456	7.820	14	+ 69	14.427	205	13.104	264
Mai 1.892	0.3308	0.12817	287	−253	7.806	14	+101	14.222	209	13.368	259
2.889	0.3335	+0.13104		− 1	−7.792		+110	−14.013		−13.627	

Reduktionsgrößen 1930

für 12^h Sternzeit Greenwich

Welt-Zeit		t	A		A′	B		B′	C		D	
1930		s			in 0.00001	"		in 0.001	"		"	
Mai	2.889	0.3335	+0.13104	290	− 1	−7.792	14	+110	−14.013	213	−13.627	256
	3.886	0.3362	0.13394	292	+245	7.778	14	+ 93	13.800	216	13.883	252
	4.883	0.3390	0.13686	296	+430	7.764	14	+ 54	13.584	220	14.135	248
	5.881	0.3417	0.13982	298	+508	7.750	14	+ 2	13.364	225	14.383	243
	6.878	0.3444	0.14280	301	+470	7.736	14	− 50	13.139	228	14.626	239
	7.875	0.3472	0.14581	304	+327	7.722	13	− 90	12.911	231	14.865	235
	8.872	0.3499	+0.14885	306	+124	−7.709	14	−108	−12.680	235	−15.100	230
	9.870	0.3526	0.15191	309	− 90	7.695	13	−101	12.445	238	15.330	226
	10.867	0.3553	0.15500	312	−257	7.682	14	− 73	12.207	242	15.556	221
	11.864	0.3581	0.15812	314	−348	7.668	13	− 29	11.965	245	15.777	217
	12.861	0.3608	0.16126	317	−348	7.655	13	+ 19	11.720	248	15.994	212
	13.859	0.3635	0.16443	320	−263	7.642	13	+ 60	11.472	251	16.206	208
	14.856	0.3663	+0.16763	323	−119	−7.629	13	+ 89	−11.221	254	−16.414	203
	15.853	0.3690	0.17086	325	+ 53	7.616	12	+100	10.967	258	16.617	198
	16.851	0.3717	0.17411	328	+215	7.604	12	+ 94	10.709	260	16.815	193
	17.848	0.3745	0.17739	330	+339	7.592	12	+ 70	10.449	263	17.008	189
	18.845	0.3772	0.18069	332	+407	7.580	12	+ 35	10.186	266	17.197	184
	19.842	0.3799	0.18401	335	+404	7.568	12	− 5	9.920	268	17.381	178
	20.840	0.3827	+0.18736	337	+328	−7.556	11	− 47	− 9.652	271	−17.559	173
	21.837	0.3854	0.19073	340	+184	7.545	11	− 80	9.381	273	17.732	169
	22.834	0.3881	0.19413	342	− 10	7.534	11	− 99	9.108	276	17.901	164
	23.831	0.3908	0.19755	344	−222	7.523	10	−100	8.832	278	18.065	158
	24.829	0.3936	0.20099	346	−416	7.513	10	− 82	8.554	281	18.223	153
	25.826	0.3963	0.20445	349	−552	7.503	10	− 46	8.273	283	18.376	148
	26.823	0.3990	+0.20794	351	−593	−7.493	9	+ 2	− 7.990	285	−18.524	143
	27.821	0.4018	0.21145	352	−521	7.484	9	+ 51	7.705	287	18.667	138
	28.818	0.4045	0.21497	354	−348	7.475	9	+ 90	7.418	289	18.805	133
	29.815	0.4072	0.21851	357	−101	7.466	8	+110	7.129	291	18.938	127
	30.812	0.4100	0.22208	358	+161	7.458	7	+103	6.838	293	19.065	122
	31.810	0.4127	0.22566	360	+385	7.451	7	+ 72	6.545	294	19.187	116
Juni	1.807	0.4154	+0.22926	361	+516	−7.444	6	+ 24	− 6.251	296	−19.303	111
	2.804	0.4181	0.23287	363	+528	7.438	6	− 30	5.955	298	19.414	105
	3.801	0.4209	0.23650	364	+426	7.432	6	− 76	5.657	299	19.519	100
	4.799	0.4236	0.24014	366	+238	7.426	5	−103	5.358	300	19.619	94
	5.796	0.4263	0.24380	367	+ 19	7.421	5	−107	5.058	302	19.713	89
	6.793	0.4291	0.24747	368	−180	7.416	4	− 86	4.756	303	19.802	84
	7.790	0.4318	+0.25115	369	−312	−7.412	4	− 48	− 4.453	304	−19.886	78
	8.788	0.4345	0.25484	371	−352	7.408	3	0	4.149	306	19.964	73
	9.785	0.4373	0.25855	372	−299	7.405	3	+ 45	3.843	306	20.037	67
	10.782	0.4400	0.26227	373	−178	7.402	2	+ 81	3.537	307	20.104	61
	11.780	0.4427	0.26600	374	− 14	7.400	1	+ 99	3.230	308	20.165	56
	12.777	0.4455	+0.26974		+156	−7.399		+ 97	− 2.922		−20.221	

Reduktionsgrößen 1930

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Welt-Zeit	t	A		A′	B		B′	C		D	
1930				in 0.00001			in 0.001				
Juni 12.777	0.4455	+0.26974	374	+156	−7.399	1	+ 97	−2.922	309	−20.221	50
13.774	0.4482	0.27348	375	+300	7.398	0	+ 80	2.613	310	20.271	45
14.771	0.4509	0.27723	375	+391	7.398	0	+ 48	2.303	310	20.316	39
15.769	0.4536	0.28098	376	+414	7.398	1	+ 9	1.993	311	20.355	33
16.766	0.4564	0.28474	377	+363	7.399	1	− 32	1.682	311	20.388	28
17.763	0.4591	0.28851	377	+239	7.400	2	− 69	1.371	311	20.416	22
18.760	0.4618	+0.29228	377	+ 58	−7.402	2	− 93	−1.060	312	−20.438	16
19.758	0.4646	0.29605	377	−155	7.404	3	−103	0.748	312	20.454	11
20.755	0.4673	0.29982	378	−366	7.407	4	− 92	0.436	312	20.465	5
21.752	0.4700	0.30360	378	−534	7.411	4	− 62	−0.124	312	20.470	1
22.750	0.4728	0.30738	377	−618	7.415	5	− 18	+0.188	311	20.469	6
23.747	0.4755	0.31115	377	−594	7.420	6	+ 33	0.499	311	20.463	12
24.744	0.4782	+0.31492	377	−460	−7.426	6	+ 78	+0.810	311	−20.451	17
25.741	0.4809	0.31869	377	−235	7.432	7	+104	1.121	311	20.434	23
26.739	0.4837	0.32246	376	+ 33	7.439	7	+110	1.432	311	20.411	29
27.736	0.4864	0.32622	376	+287	7.446	8	+ 87	1.743	310	20.382	34
28.733	0.4891	0.32998	375	+470	7.454	8	+ 45	2.053	310	20.348	40
29.730	0.4919	0.33373	374	+542	7.462	9	− 8	2.363	309	20.308	46
30.728	0.4946	+0.33747	374	+494	−7.471	9	− 60	+2.672	308	−20.262	51
Juli 1.725	0.4973	0.34121	373	+343	7.480	10	− 96	2.980	308	20.211	57
2.722	0.5001	0.34494	371	+134	7.490	10	−110	3.288	306	20.154	62
3.720	0.5028	0.34865	370	− 79	7.500	11	− 98	3.594	305	20.092	68
4.717	0.5055	0.35235	370	−243	7.511	11	− 65	3.899	304	20.024	73
5.714	0.5083	0.35605	368	−323	7.522	12	− 19	4.203	303	19.951	79
6.711	0.5110	+0.35973	367	−310	−7.534	13	+ 29	+4.506	302	−19.872	84
7.709	0.5137	0.36340	366	−213	7.547	13	+ 69	4.808	300	19.788	90
8.706	0.5164	0.36706	365	− 61	7.560	14	+ 95	5.108	299	19.698	95
9.703	0.5192	0.37071	363	+111	7.574	14	+101	5.407	298	19.603	100
10.700	0.5219	0.37434	362	+267	7.588	15	+ 89	5.705	296	19.503	106
11.698	0.5246	0.37796	360	+379	7.603	15	+ 61	6.001	295	19.397	111
12.695	0.5274	+0.38156	358	+428	−7.618	15	+ 23	+6.296	293	−19.286	117
13.692	0.5301	0.38514	356	+400	7.633	16	− 17	6.589	291	19.169	122
14.689	0.5328	0.38870	355	+302	7.649	16	− 57	6.880	289	19.047	127
15.687	0.5356	0.39225	353	+137	7.665	17	− 87	7.169	287	18.920	132
16.684	0.5383	0.39578	351	− 70	7.682	17	−102	7.456	285	18.788	138
17.681	0.5410	0.39929	349	−289	7.699	17	− 98	7.741	283	18.650	143
18.679	0.5437	+0.40278	347	−485	−7.716	18	− 76	+8.024	281	−18.507	147
19.676	0.5465	0.40625	345	−612	7.734	18	− 36	8.305	279	18.360	153
20.673	0.5492	0.40970	342	−641	7.752	19	+ 12	8.584	276	18.207	158
21.670	0.5519	0.41312	340	−556	7.771	19	+ 61	8.860	274	18.049	163
22.668	0.5547	0.41652	338	−371	7.790	19	+ 97	9.134	272	17.886	168
23.665	0.5574	+0.41990		−117	−7.809		+111	+9.406		−17.718	

für 12^h Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1930	a			in 0.00001	″		in 0.001	″		″	
Juli 23.665	0.5574	+0.41990	336	−117	−7.809	19	+111	+ 9.406	269	−17.718	173
24.662	0.5601	0.42326	333	+150	7.828	20	+100	9.675	266	17.545	178
25.659	0.5629	0.42659	331	+371	7.848	20	+ 65	9.941	263	17.367	183
26.657	0.5656	0.42990	328	+496	7.868	20	+ 15	10.204	261	17.184	187
27.654	0.5683	0.43318	326	+505	7.888	21	− 38	10.465	258	16.997	192
28.651	0.5711	0.43644	324	+400	7.909	21	− 83	10.723	255	16.805	197
29.649	0.5738	+0.43968	321	+217	−7.930	21	−107	+10.978	252	−16.608	202
30.646	0.5765	0.44289	319	+ 8	7.951	21	−106	11.230	249	16.406	206
31.643	0.5792	0.44608	316	−172	7.972	21	− 82	11.479	246	16.200	210
Aug. 1.640	0.5820	0.44924	313	−284	7.993	21	− 39	11.725	242	15.990	215
2.638	0.5847	0.45237	311	−304	8.014	21	+ 10	11.967	239	15.775	219
3.635	0.5874	0.45548	308	−235	8.035	22	+ 55	12.206	237	15.556	224
4.632	0.5902	+0.45856	305	− 99	−8.057	21	+ 86	+12.443	233	−15.332	228
5.629	0.5929	0.46161	303	+ 72	8.078	22	+100	12.676	229	15.104	233
6.627	0.5956	0.46464	300	+238	8.100	21	+ 96	12.905	226	14.871	237
7.624	0.5984	0.46764	297	+368	8.121	22	+ 73	13.131	222	14.634	241
8.621	0.6011	0.47061	295	+440	8.143	22	+ 40	13.353	218	14.393	245
9.619	0.6038	0.47356	292	+441	8.165	22	− 1	13.571	215	14.148	249
10.616	0.6065	+0.47648	289	+368	−8.187	22	− 42	+13.786	211	−13.899	253
11.613	0.6093	0.47937	287	+227	8.209	21	− 76	13.997	207	13.646	257
12.610	0.6120	0.48224	284	+ 32	8.230	21	− 97	14.204	203	13.389	261
13.608	0.6147	0.48508	281	−189	8.251	21	−101	14.407	200	13.128	264
14.605	0.6175	0.48789	278	−398	8.272	21	− 87	14.607	196	12.864	268
15.602	0.6202	0.49067	276	−561	8.293	21	− 51	14.803	191	12.596	271
16.599	0.6229	+0.49343	273	−638	−8.314	21	− 6	+14.994	187	−12.325	275
17.597	0.6257	0.49616	271	−607	8.335	21	+ 43	15.181	183	12.050	279
18.594	0.6284	0.49887	268	−470	8.356	21	+ 85	15.364	179	11.771	282
19.591	0.6311	0.50155	266	−247	8.377	20	+108	15.543	174	11.489	286
20.588	0.6339	0.50421	263	+ 14	8.397	20	+108	15.717	170	11.203	289
21.586	0.6366	0.50684	260	+254	8.417	20	+ 81	15.887	166	10.914	292
22.583	0.6393	+0.50944	258	+419	−8.437	20	+ 34	+16.053	161	−10.622	295
23.580	0.6420	0.51202	256	+473	8.457	19	− 19	16.214	157	10.327	298
24.578	0.6448	0.51458	254	+414	8.476	19	− 68	16.371	152	10.029	301
25.575	0.6475	0.51712	251	+264	8.495	18	−101	16.523	148	9.728	304
26.572	0.6502	0.51963	249	+ 64	8.513	18	−109	16.671	143	9.424	307
27.569	0.6530	0.52212	247	−127	8.531	18	− 93	16.814	138	9.117	309
28.567	0.6557	+0.52459	245	−261	−8.549	18	− 56	+16.952	133	− 8.808	312
29.564	0.6584	0.52704	242	−310	8.567	17	− 8	17.085	129	8.496	315
30.561	0.6612	0.52946	240	−264	8.584	17	+ 39	17.214	124	8.181	317
31.558	0.6639	0.53186	239	−143	8.601	16	+ 77	17.338	119	7.864	320
Sept. 1.556	0.6666	0.53425	237	+ 26	8.617	16	+ 99	17.457	114	7.544	322
2.553	0.6693	+0.53662		+199	−8.633		+101	+17.571		− 7.222	

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für 12ʰ Sternzeit Greenwich

Welt-Zeit		t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
1930		a			in 0.00001	″		in 0.001	″		″	
Sept.	2.553	0.6693	+0.53662	235	+199	−8.633	15	+101	+17.571	109	−7.222	323
	3.550	0.6721	0.53897	233	+349	8.648	15	+ 84	17.680	104	6.899	326
	4.548	0.6748	0.54130	232	+445	8.663	14	+ 53	17.784	100	6.573	328
	5.545	0.6775	0.54362	230	+471	8.677	14	+ 13	17.884	94	6.245	330
	6.542	0.6803	0.54592	228	+424	8.691	13	− 28	17.978	89	5.915	332
	7.539	0.6830	0.54820	227	+307	8.704	13	− 65	18.067	84	5.583	334
	8.537	0.6857	+0.55047	225	+132	−8.717	12	− 90	+18.151	79	−5.249	335
	9.534	0.6885	0.55272	224	− 80	8.729	12	−102	18.230	74	4.914	337
	10.531	0.6912	0.55496	223	−295	8.741	11	− 94	18.304	68	4.577	338
	11.528	0.6939	0.55719	222	−479	8.752	11	− 67	18.372	63	4.239	340
	12.526	0.6967	0.55941	220	−594	8.763	10	− 25	18.435	58	3.899	341
	13.523	0.6994	0.56161	219	−611	8.773	9	+ 23	18.493	53	3.558	342
	14.520	0.7021	+0.56380	219	−518	−8.782	9	+ 69	+18.546	47	−3.216	344
	15.517	0.7048	0.56599	218	−335	8.791	8	+100	18.593	42	2.872	345
	16.515	0.7076	0.56817	217	− 93	8.799	8	+111	18.635	37	2.527	345
	17.512	0.7103	0.57034	217	+151	8.807	7	+ 94	18.672	31	2.182	346
	18.509	0.7130	0.57251	216	+342	8.814	6	+ 56	18.703	26	1.836	347
	19.507	0.7158	0.57467	216	+438	8.820	6	+ 3	18.729	21	1.489	348
	20.504	0.7185	+0.57683	215	+418	−8.826	5	− 50	+18.750	15	−1.141	348
	21.501	0.7212	0.57898	215	+295	8.831	5	− 91	18.765	10	0.793	348
	22.498	0.7240	0.58113	215	+106	8.836	4	−110	18.775	4	0.445	349
	23.496	0.7267	0.58328	215	− 94	8.840	3	−104	18.779	1	−0.096	349
	24.493	0.7294	0.58543	215	−251	8.843	3	− 75	18.778	7	+0.253	349
	25.490	0.7321	0.58758	215	−331	8.846	2	− 28	18.771	12	0.602	349
	26.487	0.7349	+0.58973	216	−313	−8.848	1	+ 21	+18.759	18	+0.951	349
	27.485	0.7376	0.59189	216	−210	8.849	0	+ 64	18.741	23	1.300	349
	28.482	0.7403	0.59405	217	− 48	8.849	0	+ 93	18.718	28	1.649	349
	29.479	0.7431	0.59622	217	+138	8.849	1	+104	18.690	34	1.998	348
	30.477	0.7458	0.59839	218	+306	8.848	1	+ 94	18.656	40	2.346	348
Okt.	1.474	0.7485	0.60057	219	+428	8.847	2	+ 67	18.616	45	2.694	347
	2.471	0.7513	+0.60276	220	+483	−8.845	2	+ 29	+18.571	51	+3.041	346
	3.468	0.7540	0.60496	221	+464	8.843	3	− 12	18.520	56	3.387	345
	4.466	0.7567	0.60717	221	+371	8.840	3	− 51	18.464	61	3.732	345
	5.463	0.7594	0.60938	223	+217	8.837	4	− 83	18.403	67	4.077	344
	6.460	0.7622	0.61161	224	+ 17	8.833	5	− 99	18.336	72	4.421	342
	7.457	0.7649	0.61385	225	−197	8.828	6	− 99	18.264	78	4.763	341
	8.455	0.7676	+0.61610	227	−394	−8.822	6	− 80	+18.186	83	+5.104	341
	9.452	0.7704	0.61837	229	−536	8.816	7	− 42	18.103	89	5.445	339
	10.449	0.7731	0.62066	230	−589	8.809	7	+ 4	18.014	94	5.784	337
	11.447	0.7758	0.62296	232	−537	8.802	8	+ 52	17.920	99	6.121	336
	12.444	0.7786	0.62528	234	−387	8.794	8	+ 91	17.821	105	6.457	334
	13.441	0.7813	+0.62762		−168	−8.786		+110	+17.716		+6.791	

für 12h Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1930				in 0.00001			in 0.001				
Okt. 13.441	0.7813	+0.62762	236	—168	—8.786	9	+110	+17.716	110	+ 6.791	332
14.438	0.7840	0.62998	238	+ 77	8.777	9	+104	17.606	115	7.123	330
15.436	0.7868	0.63236	240	+289	8.768	10	+ 73	17.491	121	7.453	328
16.433	0.7895	0.63476	242	+418	8.758	10	+ 24	17.370	126	7.781	326
17.430	0.7922	0.63718	244	+437	8.748	11	— 29	17.244	131	8.107	324
18.427	0.7949	0.63962	246	+342	8.737	11	— 77	17.113	137	8.431	321
19.425	0.7977	+0.64208	248	+166	—8.726	12	—105	+16.976	142	+ 8.752	319
20.422	0.8004	0.64456	251	— 43	8.714	12	—109	16.834	146	9.071	316
21.419	0.8031	0.64707	254	—228	8.702	12	— 89	16.688	151	9.387	313
22.416	0.8059	0.64961	256	—345	8.690	13	— 47	16.537	157	9.700	311
23.414	0.8086	0.65217	258	—366	8.677	13	+ 2	16.380	162	10.011	308
24.411	0.8113	0.65475	263	—290	8.664	14	+ 50	16.218	166	10.319	305
25.408	0.8141	+0.65738	265	—138	—8.650	14	+ 84	+16.052	171	+10.624	302
26.406	0.8168	0.66003	267	+ 51	8.636	14	+102	15.881	177	10.926	299
27.403	0.8195	0.66270	270	+236	8.622	14	+ 99	15.704	182	11.225	296
28.400	0.8222	0.66540	273	+386	8.608	15	+ 78	15.522	186	11.521	292
29.397	0.8250	0.66813	276	+472	8.593	15	+ 45	15.336	191	11.813	289
30.395	0.8277	0.67089	279	+482	8.578	15	+ 4	15.145	196	12.102	286
31.392	0.8304	+0.67368	282	+416	—8.563	15	— 37	+14.949	200	+12.388	282
Nov. 1.389	0.8332	0.67650	285	+282	8.548	16	— 72	14.749	205	12.670	278
2.386	0.8359	0.67935	288	+ 94	8.532	16	— 94	14.544	209	12.948	274
3.384	0.8386	0.68223	291	—116	8.516	16	—102	14.335	214	13.222	271
4.381	0.8414	0.68514	294	—321	8.500	16	— 89	14.121	218	13.493	267
5.378	0.8441	0.68808	298	—484	8.484	17	— 58	13.903	222	13.760	262
6.376	0.8468	+0.69106	301	—569	—8.467	16	— 15	+13.681	226	+14.022	258
7.373	0.8496	0.69407	303	—555	8.451	16	+ 33	13.455	231	14.280	255
8.370	0.8523	0.69710	307	—438	8.435	16	+ 77	13.224	235	14.535	250
9.367	0.8550	0.70017	310	—237	8.419	16	+105	12.989	240	14.785	246
10.365	0.8577	0.70327	313	+ 7	8.403	16	+109	12.749	244	15.031	241
11.362	0.8605	0.70640	317	+240	8.387	16	+ 89	12.505	247	15.272	236
12.359	0.8632	+0.70957	320	+406	—8.371	16	+ 45	+12.258	251	+15.508	231
13.356	0.8659	0.71277	322	+469	8.355	16	— 7	12.007	255	15.739	227
14.354	0.8687	0.71599	326	+413	8.339	16	— 58	11.752	259	15.966	222
15.351	0.8714	0.71925	329	+258	8.323	16	— 98	11.493	262	16.188	217
16.348	0.8741	0.72254	332	+ 46	8.307	15	—111	11.231	266	16.405	212
17.346	0.8769	0.72586	335	—165	8.292	15	—100	10.965	270	16.617	208
18.343	0.8796	+0.72921	338	—323	—8.277	15	— 67	+10.695	273	+16.825	203
19.340	0.8823	0.73259	341	—389	8.262	14	— 17	10.422	276	17.028	197
20.337	0.8850	0.73600	344	—352	8.248	14	+ 32	10.146	279	17.225	192
21.335	0.8878	0.73944	347	—227	8.234	14	+ 73	9.867	282	17.417	186
22.332	0.8905	0.74291	350	— 45	8.220	14	+ 99	9.585	285	17.603	181
23.329	0.8932	+0.74641		+151	—8.206		+103	+ 9.300		+17.784	

Reduktionsgrößen 1930

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A	Diff.	A'	B	Diff.	B'	C	Diff.	D	Diff.
1930	a			in 0.00001			in 0.001				
Nov. 23.329	0.8932	+0.74641	352	+151	−8.206	13	+103	+9.300	289	+17.784	175
24.326	0.8960	0.74993	355	+324	8.193	13	+ 88	9.011	292	17.959	170
25.324	0.8987	0.75348	358	+439	8.180	13	+ 58	8.719	294	18.129	165
26.321	0.9014	0.75706	360	+480	8.167	12	+ 17	8.425	297	18.294	159
27.318	0.9042	0.76066	363	+444	8.155	12	− 23	8.128	300	18.453	154
28.315	0.9069	0.76429	365	+330	8.143	12	− 62	7.828	302	18.607	148
29.313	0.9096	+0.76794	368	+159	−8.131	11	− 89	+7.526	305	+18.755	141
30.310	0.9124	0.77162	370	− 47	8.120	11	−101	7.221	307	18.896	136
Dez. 1.307	0.9151	0.77532	373	−259	8.109	10	− 96	6.914	309	19.032	130
2.305	0.9178	0.77905	375	−442	8.099	9	− 70	6.605	311	19.162	125
3.302	0.9205	0.78280	376	−559	8.090	9	− 32	6.294	313	19.287	118
4.299	0.9233	0.78656	378	−583	8.081	8	+ 16	5.981	315	19.405	112
5.296	0.9260	+0.79034	380	−502	−8.073	8	+ 62	+5.666	317	+19.517	106
6.294	0.9287	0.79414	382	−326	8.065	7	+ 96	5.349	319	19.623	100
7.291	0.9315	0.79796	384	− 86	8.058	7	+110	5.030	321	19.723	94
8.288	0.9342	0.80180	385	+165	8.051	6	+ 99	4.709	322	19.817	88
9.285	0.9369	0.80565	387	+370	8.045	6	+ 66	4.387	324	19.905	81
10.283	0.9397	0.80952	388	+484	8.039	5	+ 15	4.063	325	19.986	75
11.280	0.9424	+0.81340	390	+479	−8.034	4	− 39	+3.738	327	+20.061	69
12.277	0.9451	0.81730	391	+361	8.030	4	− 84	3.411	328	20.130	63
13.275	0.9478	0.82121	392	+164	8.026	3	−109	3.083	328	20.193	56
14.272	0.9506	0.82513	393	− 59	8.023	2	−106	2.755	329	20.249	50
15.269	0.9533	0.82906	393	−251	8.021	2	− 81	2.426	330	20.299	44
16.266	0.9560	0.83299	394	−364	8.019	1	− 39	2.096	331	20.343	37
17.264	0.9588	+0.83693	395	−373	−8.018	1	+ 13	+1.765	331	+20.380	31
18.261	0.9615	0.84088	396	−286	8.017	0	+ 58	1.434	332	20.411	24
19.258	0.9642	0.84484	396	−125	8.017	1	+ 91	1.102	333	20.435	18
20.255	0.9670	0.84880	396	+ 72	8.018	2	+105	0.769	333	20.453	12
21.253	0.9697	0.85276	397	+259	8.020	2	+ 95	0.436	333	20.465	5
22.250	0.9724	0.85673	396	+399	8.022	3	+ 70	+0.103	333	20.470	1
23.247	0.9752	+0.86069	396	+470	−8.025	4	+ 33	−0.230	333	+20.469	8
24.244	0.9779	0.86465	396	+461	8.029	4	− 8	0.563	333	20.461	14
25.242	0.9806	0.86861	396	+376	8.033	5	− 49	0.896	332	20.447	21
26.239	0.9833	0.87257	396	+221	8.038	6	− 81	1.228	332	20.426	27
27.236	0.9861	0.87653	395	+ 24	8.044	6	− 98	1.560	332	20.399	33
28.234	0.9888	0.88048	395	−192	8.050	7	−100	1.892	331	20.366	40
29.231	0.9915	+0.88443	394	−392	−8.057	8	− 82	−2.223	331	+20.326	46
30.228	0.9943	0.88837	393	−542	8.065	9	− 48	2.554	331	20.280	53
31.225	0.9970	0.89230	392	−608	8.074	9	− 3	2.885	328	20.227	59
32.223	0.9997	+0.89622		−572	−8.083		+ 45	−3.213		+20.168	

Übertragung mittlerer Sternörter

von dem Äquinoktium t_1 auf $t_2 = 1930.0$

t_1	$m^s(t_2-t_1)$	$\log[n^s(t_2-t_1)]$	$\log[n''(t_2-t_1)]$
1755	$+8^m\,57^s.472$	2.369100	3.545191
1790	7 10.022	2.272158	3.448249
1800	6 39.318	2.239963	3.416054
1810	6 8.613	2.205191	3.381283
1825	5 22.551	2.147186	3.323278
1830	+5 7.196	2.125993	3.302084
1835	4 51.841	2.103712	3.279803
1840	4 36.485	2.080226	3.256317
1845	4 21.128	2.055397	3.231488
1850	4 5.772	2.029064	3.205155
1855	+3 50.415	2.001030	3.177121
1860	3 35.057	1.971062	3.147153
1865	3 19.699	1.938872	3.114963
1870	3 4.340	1.904106	3.080197
1875	2 48.981	1.866313	3.042404
1880	+2 33.621	1.824916	3.001007
1885	2 18.261	1.779154	2.955245
1890	2 2.901	1.727997	2.904088
1895	1 47.540	1.670000	2.846091
1900	1 32.178	1.60305	2.77914
1905	+1 16.817	1.52386	2.69995
1910	1 1.454	1.42695	2.60304
1915	0 46.091	1.30200	2.47810
1920	0 30.728	1.12591	2.30200
1925	+0 15.364	0.82487	2.00096
1930	0 0.000	$-\infty$	$-\infty$

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1930.0$, ist ferner α', δ' der genäherte Sternort für die Zeit

$$\frac{1}{2}(t_1 + t_2),$$

so ist

$$\alpha_2 = \alpha_1 + m^s(t_2-t_1) + [n^s(t_2-t_1)] \sin\alpha' \operatorname{tg}\delta'$$
$$\delta_2 = \delta_1 + [n''(t_2-t_1)] \cos\alpha'$$

Übertragung mittlerer Polsternörter

von dem Äquinoktium t_1 auf $t_2 = 1930.0$

t_1	$90° - (N)$	$(m)+(N)-90°$	(n)
1755	+67 9.92	+67 12.34	+58 28.83
1790	53 44.44	53 46.00	46 46.92
1800	49 54.26	49 55.60	43 26.38
1810	46 4.06	46 5.20	40 5.85
1825	40 18.72	40 19.59	35 5.07
1830	+38 23.59	+38 24.39	+33 24.81
1835	36 28.46	36 29.18	31 44.55
1840	34 33.33	34 33.97	30 4.30
1845	32 38.19	32 38.76	28 24.04
1850	30 43.04	30 43.55	26 43.79
1855	+28 47.89	+28 48.34	+25 3.54
1860	26 52.74	26 53.13	23 23.29
1865	24 57.58	24 57.91	21 43.05
1870	23 2.41	23 2.70	20 2.80
1875	21 7.24	21 7.48	18 22.56
1880	+19 12.06	+19 12.26	+16 42.32
1885	17 16.88	17 17.04	15 2.07
1890	15 21.69	15 21.82	13 21.84
1895	13 26.50	13 26.60	11 41.60
1900	11 31.30	11 31.37	10 1.37
1905	+ 9 36.10	+ 9 36.15	+ 8 21.13
1910	7 40.89	7 40.92	6 40.90
1915	5 45.68	5 45.69	5 0.67
1920	3 50.46	3 50.46	3 20.45
1925	+ 1 55.23	+ 1 55.23	+ 1 40.22
1930	0 0.00	0 0.00	0 0.00

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1930.0$, so hat man

zur Reduktion von dem Äquinoktium t_1 auf t_2:

$$a_1 = \alpha_1 + [90° - (N)]$$

$$p_1 = \left(\operatorname{tang} \delta_1 + \cos a_1 \operatorname{tang} \tfrac{1}{2}(n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a_1 = \frac{p_1 \sin a_1}{1 - p_1 \cos a_1}$$

$$\alpha_2 = a_1 + [(m)+(N)-90°] + \Delta a_1$$

$$\operatorname{tang} \tfrac{1}{2}(\delta_2 - \delta_1) = \cos (a_1 + \tfrac{1}{2}\Delta a_1) \sec \tfrac{1}{2}\Delta a_1 \operatorname{tang} \tfrac{1}{2}(n)$$

zur Reduktion von dem Äquinoktium t_2 auf t_1:

$$a_2 = \alpha_2 - [(m) + (N) - 90°]$$

$$p_2 = -\left(\operatorname{tang} \delta_2 - \cos a_2 \operatorname{tang} \tfrac{1}{2}(n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a_2 = \frac{p_2 \sin a_2}{1 - p_2 \cos a_2}$$

$$\alpha_1 = a_2 - [90° - (N)] + \Delta a_2$$

$$\operatorname{tang} \tfrac{1}{2}(\delta_1 - \delta_2) = -\cos\left(a_2 + \tfrac{1}{2}\Delta a_2\right) \sec \tfrac{1}{2}\Delta a_2 \operatorname{tang} \tfrac{1}{2}(n)$$

Reduktion
scheinbarer Rektaszensions- und Deklinations-Differenzen auf mittlere für den Jahresanfang.

Die Tafeln der Werte p, q, r (in Einheiten der vierten Dezimale) auf Seite 268*—279* sollen zur bequemen Reduktion scheinbarer Rektaszensions- und Deklinationsdifferenzen auf mittlere, für den Jahresanfang geltende, dienen.

Ist $\Delta\alpha^m$ die gemessene scheinbare Rektaszensionsdifferenz in Zeitminuten,
$\Delta\delta'$ » » » Deklinationsdifferenz in Bogenminuten,
beides im Sinne Objekt minus Stern, so sind die an diesen Größen anzubringenden Korrektionen in Zeit- bez. Bogensekunden gegeben durch die Ausdrücke:

Korr. für $\Delta\alpha = p . \Delta\alpha^m . \sec\delta + q . \Delta\delta' . \frac{1}{15}\sec^2\delta$ in Zeitsekunden

Korr. für $\Delta\delta = - q . 15 . \Delta\alpha^m + r . \Delta\delta'$ in Bogensekunden.

Die Werte $\sec\delta$ und $\frac{1}{15}\sec^2\delta$ sind in nachstehender Tafel enthalten.

δ	tg δ	sec δ	$\frac{1}{15}\sec^2\delta$	δ	tg δ	sec δ	$\frac{1}{15}\sec^2\delta$
0°	0.00	1.00	0.07	63°	1.96	2.20	0.32
5	0.09	1.00	0.07	64	2.05	2.28	0.35
10	0.18	1.02	0.07	65	2.14	2.37	0.37
15	0.27	1.04	0.07	66	2.25	2.46	0.40
20	0.36	1.06	0.08	67	2.36	2.56	0.44
25	0.47	1.10	0.08	68	2.48	2.67	0.48
30	0.58	1.15	0.09	69	2.61	2.79	0.52
35	0.70	1.22	0.10	70	2.75	2.92	0.57
40	0.84	1.31	0.11	71	2.90	3.07	0.63
40°	0.84	1.31	0.11	72	3.08	3.24	0.70
42	0.90	1.35	0.12	73	3.27	3.42	0.78
44	0.97	1.39	0.13	74	3.49	3.63	0.88
46	1.04	1.44	0.14	75	3.73	3.86	1.00
48	1.11	1.49	0.15	75°0	3.73	3.86	1.00
50	1.19	1.56	0.16	75.5	3.87	3.99	1.06
52	1.28	1.62	0.18	76.0	4.01	4.13	1.14
54	1.38	1.70	0.19	76.5	4.17	4.28	1.22
56	1.48	1.79	0.21	77.0	4.33	4.45	1.32
58	1.60	1.89	0.24	77.5	4.51	4.62	1.42
60	1.73	2.00	0.27	78.0	4.70	4.81	1.54
60°	1.73	2.00	0.27	78.5	4.92	5.02	1.68
61	1.80	2.06	0.28	79.0	5.14	5.24	1.83
62	1.88	2.13	0.30	79.5	5.40	5.49	2.01
63	1.96	2.20	0.32	80.0	5.67	5.76	2.21

p, 1930 Januar 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	−63	−62	−60	−57	−54	−51	−49	−47	−46	12^h
1	−62	−61	−60	−59	−58	−57	−56	−55	−55	13
2	−56	−56	−57	−58	−58	−59	−60	−60	−61	14
3	−47	−48	−49	−52	−54	−57	−59	−61	−62	15
4	−34	−36	−38	−42	−47	−51	−55	−58	−59	16
5	−19	−21	−25	−30	−36	−42	−47	−50	−52	17
6	− 3	− 5	−10	−16	−22	−29	−35	−40	−42	18
7	+14	+11	+ 6	0	− 8	−15	−21	−26	−29	19
8	+29	+27	+22	+15	+ 8	0	− 6	−11	−14	20
9	+43	+40	+36	+30	+23	+16	+10	+ 5	+ 3	21
10	+53	+51	+47	+42	+36	+30	+25	+21	+19	22
11	+60	+59	+55	+51	+47	+42	+38	+35	+33	23
12	+63	+62	+60	+57	+54	+51	+49	+47	+46	24

q, 1930 Januar 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	− 2	+ 1	+ 6	+12	+20	+28	+34	+39	+42	12^h
1	+14	+15	+17	+19	+21	+24	+26	+28	+29	13
2	+29	+28	+27	+24	+22	+19	+17	+15	+14	14
3	+43	+40	+35	+28	+20	+13	+ 6	+ 1	− 2	15
4	+53	+49	+41	+30	+18	+ 5	− 6	−14	−18	16
5	+60	+54	+44	+30	+14	− 2	−16	−27	−32	17
6	+62	+56	+44	+27	+ 9	−10	−26	−38	−45	18
7	+61	+54	+41	+23	+ 3	−17	−34	−47	−54	19
8	+55	+48	+35	+18	− 2	−22	−40	−53	−60	20
9	+46	+39	+27	+11	− 8	−27	−43	−55	−61	21
10	+33	+28	+17	+ 3	−13	−29	−43	−53	−59	22
11	+18	+14	+ 6	− 5	−17	−29	−40	−48	−52	23
12	+ 2	− 1	− 6	−12	−20	−28	−34	−39	−42	24

r, 1930 Januar 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0^h	0	−19	−36	−48	−54	−54	−48	−36	−19	12^h
1	− 1	−21	−39	−52	−58	−58	−51	−38	−20	13
2	− 1	−21	−39	−52	−58	−58	−51	−38	−20	14
3	0	−19	−35	−48	−54	−54	−48	−36	−19	15
4	+ 1	−15	−30	−41	−47	−47	−42	−32	−18	16
5	+ 3	−10	−21	−30	−36	−37	−34	−26	−16	17
6	+ 6	− 3	−11	−18	−22	−24	−23	−20	−13	18
7	+ 8	+ 5	+ 1	− 4	− 8	−10	−12	−12	−11	19
8	+11	+12	+12	+11	+ 8	+ 4	0	− 5	− 8	20
9	+13	+20	+24	+25	+23	+18	+11	+ 3	− 6	21
10	+16	+26	+34	+37	+36	+30	+21	+10	− 3	22
11	+18	+32	+42	+47	+47	+41	+30	+15	− 1	23
12	+19	+36	+48	+54	+54	+48	+36	+19	0	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leq \alpha \leq 12^h$ in die obere, für $12^h \leq \alpha \leq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leq \alpha \leq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

$$\text{Korr. } (\Delta\alpha)^s = p \cdot \Delta\alpha^m \cdot \sec\delta + q \cdot \Delta\delta' \cdot \tfrac{1}{15} \sec^2\delta; \quad \text{Korr. } (\Delta\delta)'' = -q \cdot 15 \cdot \Delta\alpha^m + r \cdot \Delta\delta'$$

p, 1930 Februar 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ \ α
0ʰ	−37	−36	−36	−35	−34	−33	−32	−31	−31	12ʰ
1	−41	−42	−42	−43	−44	−45	−46	−47	−47	13
2	−44	−45	−46	−49	−52	−54	−57	−59	−60	14
3	−42	−44	−47	−51	−56	−60	−64	−67	−69	15
4	−39	−41	−45	−50	−56	−62	−67	−71	−73	16
5	−32	−34	−39	−45	−52	−59	−65	−70	−72	17
6	−23	−26	−31	−38	−45	−53	−59	−64	−67	18
7	−13	−16	−21	−27	−35	−42	−49	−54	−57	19
8	− 2	− 4	− 9	−15	−22	−29	−35	−40	−43	20
9	+ 9	+ 7	+ 3	− 2	− 8	−14	−20	−23	−26	21
10	+20	+18	+15	+11	+ 7	+ 2	− 2	− 5	− 7	22
11	+29	+28	+26	+24	+21	+18	+15	+13	+12	23
12	+37	+36	+36	+35	+34	+33	+32	+31	+31	24

q, 1930 Februar 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ \ α
0ʰ	−22	−17	− 7	+ 7	+22	+37	+51	+61	+66	12ʰ
1	−12	− 8	0	+10	+22	+34	+44	+52	+56	13
2	− 1	+ 1	+ 6	+13	+21	+28	+35	+40	+43	14
3	+10	+11	+13	+15	+18	+21	+23	+25	+26	15
4	+20	+19	+18	+16	+14	+11	+ 9	+ 8	+ 7	16
5	+29	+27	+22	+16	+ 9	+ 2	− 5	− 9	−12	17
6	+36	+32	+25	+15	+ 3	− 9	−19	−26	−30	18
7	+41	+35	+26	+12	− 3	−18	−31	−41	−46	19
8	+43	+37	+25	+10	− 8	−26	−41	−53	−59	20
9	+41	+35	+22	+ 6	−14	−33	−49	−62	−68	21
10	+37	+31	+18	+ 2	−18	−37	−54	−66	−73	22
11	+31	+25	+13	− 3	−21	−38	−54	−66	−72	23
12	+22	+17	+ 7	− 7	−22	−37	−51	−61	−66	24

r, 1930 Februar 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0ʰ	+13	0	−13	−25	−34	−38	−38	−34	−25	12ʰ
1	+12	− 5	−21	−35	−44	−48	−46	−39	−27	13
2	+10	− 9	−27	−42	−52	−55	−52	−43	−28	14
3	+10	−11	−30	−46	−56	−59	−55	−45	−29	15
4	+10	−11	−30	−46	−56	−59	−55	−45	−29	16
5	+10	− 9	−28	−42	−52	−56	−53	−43	−28	17
6	+11	− 6	−22	−36	−45	−49	−47	−40	−27	18
7	+13	− 1	−14	−26	−35	−39	−39	−34	−25	19
8	+15	+ 6	− 5	−14	−22	−28	−30	−28	−23	20
9	+18	+13	+ 6	− 1	− 8	−14	−19	−21	−21	21
10	+20	+20	+18	+13	+ 7	− 1	− 7	−14	−18	22
11	+23	+27	+28	+26	+21	+13	+ 3	− 7	−16	23
12	+25	+34	+38	+38	+34	+25	+13	0	−13	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α \ δ

Bei der Tafel für *r* wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

$$\text{Korr. } (\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta; \quad \text{Korr. } (\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$$

Reduktionsgrößen 1930

p, 1930 März 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0ʰ	− 6	− 6	− 6	− 6	− 7	− 7	− 7	− 7	− 7	12ʰ
1	−14	−14	−16	−18	−20	−23	−25	−26	−27	13
2	−21	−22	−25	−29	−33	−37	−41	−44	−45	14
3	−26	−28	−32	−37	−43	−49	−54	−58	−60	15
4	−30	−32	−37	−43	−50	−57	−64	−68	−71	16
5	−32	−35	−40	−46	−54	−62	−69	−74	−77	17
6	−31	−34	−39	−46	−54	−62	−69	−75	−77	18
7	−29	−31	−36	−43	−51	−59	−65	−70	−73	19
8	−24	−27	−31	−37	−44	−51	−57	−61	−63	20
9	−18	−20	−24	−28	−34	−39	−44	−48	−49	21
10	−11	−12	−15	−18	−22	−25	−29	−31	−32	22
11	− 3	− 3	− 5	− 6	− 8	−10	−11	−12	−13	23
12	+ 6	+ 6	+ 6	+ 6	+ 7	+ 7	+ 7	+ 7	+ 7	24

q, 1930 März 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0ʰ	−30	−24	−12	+ 5	+23	+42	+58	+70	+77	12ʰ
1	−28	−22	−10	+ 5	+22	+40	+55	+66	+72	13
2	−23	−18	− 8	+ 5	+20	+35	+48	+58	+63	14
3	−17	−13	− 6	+ 4	+16	+27	+38	+45	+49	15
4	−10	− 8	− 3	+ 4	+11	+18	+25	+30	+32	16
5	− 3	− 2	0	+ 3	+ 5	+ 8	+10	+12	+13	17
6	+ 6	+ 5	+ 3	+ 1	− 1	− 3	− 5	− 7	− 7	18
7	+13	+11	+ 6	0	− 7	−14	−20	−25	−27	19
8	+20	+16	+ 9	− 1	−12	−24	−34	−41	−45	20
9	+25	+20	+10	− 3	−17	−32	−45	−54	−60	21
10	+29	+23	+12	− 4	−21	−38	−53	−64	−70	22
11	+31	+24	+12	− 4	−23	−41	−58	−70	−76	23
12	+30	+24	+12	− 5	−23	−42	−58	−70	−77	24

r, 1930 März 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0ʰ	+22	+17	+10	+ 2	− 7	−14	−20	−24	−24	12ʰ
1	+20	+10	0	−11	−20	−27	−31	−31	−27	13
2	+18	+ 4	−10	−23	−33	−39	−40	−37	−29	14
3	+16	− 1	−18	−32	−43	−49	−48	−42	−31	15
4	+14	− 5	−23	−39	−50	−55	−54	−46	−32	16
5	+14	− 7	−26	−43	−54	−59	−57	−48	−33	17
6	+14	− 7	−26	−43	−54	−59	−57	−48	−33	18
7	+14	− 5	−24	−40	−51	−56	−54	−46	−32	19
8	+16	− 2	−18	−33	−44	−49	−49	−42	−31	20
9	+17	+ 4	−11	−24	−34	−40	−41	−37	−29	21
10	+20	+10	− 1	−12	−22	−28	−32	−31	−27	22
11	+22	+17	+ 9	+ 1	− 8	−15	−21	−24	−25	23
12	+24	+24	+20	+14	+ 7	− 2	−10	−17	−22	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	δ / α

Bei der Tafel für *r* wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

$$\text{Korr.}\,(\Delta\alpha)^s = p\,.\,\Delta\alpha^m\,.\,\sec\delta + q\,.\,\Delta\delta'\,.\,\tfrac{1}{15}\sec^2\delta;\quad \text{Korr.}\,(\Delta\delta)'' = -q\,.\,15\,.\,\Delta\alpha^m + r\,.\,\Delta\delta'$$

p, 1930 April 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ \ α
0h	+29	+29	+28	+26	+25	+23	+21	+20	+20	12h
1	+21	+20	+18	+15	+11	+ 7	+ 4	+ 2	0	13
2	+12	+10	+ 7	+ 2	− 4	− 9	−14	−18	−19	14
3	+ 2	− 1	− 5	−11	−18	−25	−31	−35	−38	15
4	− 9	−11	−16	−23	−31	−39	−45	−51	−53	16
5	−18	−21	−26	−34	−42	−50	−57	−62	−65	17
6	−27	−30	−35	−42	−50	−58	−65	−70	−73	18
7	−33	−36	−41	−47	−54	−62	−68	−73	−75	19
8	−38	−40	−44	−49	−55	−62	−67	−71	−73	20
9	−40	−41	−44	−48	−53	−57	−61	−64	−65	21
10	−39	−40	−41	−44	−46	−49	−51	−53	−53	22
11	−35	−36	−36	−36	−37	−37	−37	−38	−38	23
12	−29	−29	−28	−26	−25	−23	−21	−20	−20	24

q, 1930 April 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ \ α
0h	−26	−20	− 9	+ 6	+23	+40	+55	+66	+72	12h
1	−32	−26	−14	+ 3	+21	+40	+56	+68	+75	13
2	−37	−30	−18	− 1	+18	+37	+53	+66	+72	14
3	−39	−33	−21	− 5	+13	+31	+47	+59	+65	15
4	−38	−33	−22	− 8	+ 7	+23	+37	+47	+53	16
5	−35	−30	−22	−11	+ 1	+14	+25	+33	+37	17
6	−29	−26	−21	−13	− 5	+ 4	+11	+16	+19	18
7	−21	−20	−18	−14	−11	− 7	− 4	− 1	0	19
8	−12	−13	−14	−15	−16	−17	−18	−19	−20	20
9	− 2	− 4	− 8	−14	−20	−26	−31	−35	−38	21
10	+ 8	+ 4	− 3	−12	−23	−33	−43	−49	−53	22
11	+17	+12	+ 3	−10	−24	−38	−51	−60	−65	23
12	+26	+20	+ 9	− 6	−23	−40	−55	−66	−72	24

r, 1930 April 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	+26	+31	+33	+30	+25	+16	+ 5	− 6	−17	12h
1	+23	+24	+22	+18	+11	+ 3	− 6	−13	−19	13
2	+21	+17	+11	+ 4	− 4	−11	−17	−21	−22	14
3	+18	+10	0	− 9	−18	−24	−28	−28	−24	15
4	+16	+ 3	−10	−22	−31	−36	−38	−34	−27	16
5	+14	− 2	−18	−32	−42	−47	−46	−40	−29	17
6	+13	− 6	−24	−39	−50	−54	−52	−44	−30	18
7	+12	− 9	−28	−44	−54	−59	−56	−46	−31	19
8	+12	− 9	−29	−45	−55	−60	−56	−46	−31	20
9	+12	− 8	−26	−42	−53	−57	−54	−45	−31	21
10	+13	− 4	−21	−36	−46	−51	−49	−42	−29	22
11	+15	0	−14	−27	−37	−42	−42	−37	−28	23
12	+17	+ 6	− 5	−16	−25	−30	−33	−31	−26	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α \ δ

Bei der Tafel für *r* wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

$\text{Korr.}\,(\Delta\alpha)^s = p\,.\,\Delta\alpha^m\,.\,\sec\delta + q\,.\,\Delta\delta'\,.\,\frac{1}{15}\sec^2\delta$; $\text{Korr.}\,(\Delta\delta)'' = -q\,.\,15\,.\,\Delta\alpha^m + r\,.\,\Delta\delta'$

Reduktionsgrößen 1930

p, 1930 Mai 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	+58	+56	+54	+51	+48	+45	+42	+39	+38	12^h
1	+53	+51	+48	+43	+38	+33	+28	+25	+23	13
2	+45	+42	+38	+32	+25	+19	+13	+ 8	+ 6	14
3	+33	+30	+25	+19	+11	+ 3	− 4	− 9	−12	15
4	+20	+17	+11	+ 4	− 4	−13	−20	−25	−28	16
5	+ 5	+ 2	− 4	−11	−19	−27	−35	−40	−43	17
6	−11	−13	−18	−25	−33	−40	−47	−52	−55	18
7	−25	−27	−32	−37	−44	−50	−56	−60	−62	19
8	−38	−40	−43	−47	−52	−57	−61	−65	−66	20
9	−48	−49	−51	−54	−57	−60	−63	−65	−66	21
10	−55	−55	−56	−57	−58	−59	−59	−60	−60	22
11	−58	−58	−57	−56	−55	−53	−52	−52	−51	23
12	−58	−56	−54	−51	−48	−45	−42	−39	−38	24

q, 1930 Mai 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	−10	− 6	+ 1	+11	+22	+33	+43	+50	+54	12^h
1	−24	−19	− 9	+ 4	+19	+34	+47	+57	+62	13
2	−37	−31	−19	− 4	+14	+32	+48	+59	+66	14
3	−47	−41	−28	−11	+ 9	+28	+45	+58	+65	15
4	−54	−47	−35	−17	+ 3	+22	+40	+53	+59	16
5	−58	−51	−39	−22	− 4	+15	+32	+44	+50	17
6	−57	−51	−41	−26	−10	+ 7	+21	+32	+37	18
7	−52	−48	−40	−28	−15	− 2	+ 9	+18	+22	19
8	−44	−41	−36	−28	−20	−11	− 3	+ 2	+ 5	20
9	−33	−32	−30	−26	−23	−19	−16	−13	−12	21
10	−20	−21	−21	−23	−24	−26	−27	−28	−28	22
11	− 5	− 8	−12	−18	−24	−31	−36	−41	−43	23
12	+10	+ 6	− 1	−11	−22	−33	−43	−50	−54	24

r, 1930 Mai 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0^h	+22	+36	+46	+50	+48	+40	+28	+12	− 6	12^h
1	+21	+31	+38	+40	+38	+31	+20	+ 7	− 7	13
2	+18	+25	+28	+29	+25	+19	+10	0	−10	14
3	+16	+18	+17	+15	+11	+ 5	− 1	− 7	−12	15
4	+13	+10	+ 6	+ 1	− 4	− 9	−12	−14	−15	16
5	+11	+ 3	− 6	−13	−19	−23	−24	−22	−17	17
6	+ 8	− 4	−16	−26	−33	−35	−34	−29	−20	18
7	+ 6	−10	−25	−36	−44	−46	−43	−34	−22	19
8	+ 5	−14	−31	−44	−52	−54	−49	−38	−23	20
9	+ 4	−16	−35	−49	−57	−58	−53	−41	−24	21
10	+ 4	−17	−35	−49	−58	−59	−53	−41	−24	22
11	+ 4	−15	−33	−47	−55	−56	−51	−40	−23	23
12	+ 6	−12	−28	−40	−48	−50	−46	−36	−22	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für *r* wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

p, 1930 Juni 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0ʰ	+75	+73	+70	+65	+59	+54	+49	+45	+43	12ʰ
1	+76	+74	+69	+63	+56	+48	+42	+37	+35	13
2	+72	+70	+64	+57	+48	+40	+32	+27	+24	14
3	+63	+60	+54	+46	+37	+28	+20	+14	+11	15
4	+50	+47	+41	+33	+24	+15	+ 7	+ 1	− 2	16
5	+34	+31	+25	+18	+ 9	+ 1	− 7	−13	−16	17
6	+15	+12	+ 7	+ 1	− 7	−14	−20	−25	−28	18
7	− 5	− 7	−11	−16	−22	−27	−32	−36	−38	19
8	−25	−26	−28	−32	−35	−39	−42	−44	−46	20
9	−43	−43	−44	−45	−46	−48	−49	−50	−50	21
10	−58	−58	−57	−56	−55	−54	−53	−52	−51	22
11	−69	−68	−65	−62	−59	−55	−52	−50	−49	23
12	−75	−73	−70	−65	−59	−54	−49	−45	−43	24

q, 1930 Juni 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0ʰ	+15	+16	+17	+19	+22	+24	+26	+27	+28	12ʰ
1	− 5	− 2	+ 3	+ 9	+17	+24	+31	+35	+38	13
2	−24	−20	−12	− 2	+11	+23	+33	+41	+45	14
3	−42	−37	−26	−12	+ 4	+20	+34	+44	+49	15
4	−57	−51	−38	−22	− 3	+15	+32	+44	+51	16
5	−68	−61	−48	−30	−10	+10	+28	+41	+48	17
6	−74	−67	−54	−36	−16	+ 4	+22	+35	+42	18
7	−76	−69	−57	−40	−21	− 2	+15	+27	+34	19
8	−72	−66	−56	−41	−25	− 8	+ 6	+17	+23	20
9	−63	−59	−51	−39	−27	−14	− 3	+ 6	+10	21
10	−50	−47	−42	−35	−27	−19	−11	− 6	− 3	22
11	−34	−33	−31	−28	−25	−22	−19	−17	−16	23
12	−15	−16	−17	−19	−22	−24	−26	−27	−28	24

r, 1930 Juni 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0ʰ	+13	+32	+47	+57	+59	+55	+44	+27	+ 8	12ʰ
1	+13	+30	+44	+53	+56	+51	+41	+25	+ 7	13
2	+11	+26	+39	+46	+48	+44	+35	+22	+ 6	14
3	+ 9	+21	+30	+36	+37	+34	+27	+16	+ 4	15
4	+ 7	+14	+20	+24	+24	+22	+17	+10	+ 1	16
5	+ 4	+ 7	+ 9	+10	+ 9	+ 8	+ 5	+ 2	− 1	17
6	+ 2	− 1	− 3	− 5	− 7	− 7	− 7	− 6	− 4	18
7	− 1	− 8	−15	−19	−22	−21	−18	−13	− 7	19
8	− 3	−15	−25	−32	−35	−34	−29	−20	− 9	20
9	− 5	−21	−34	−43	−46	−45	−37	−26	−11	21
10	− 7	−25	−40	−50	−55	−52	−44	−30	−12	22
11	− 7	−27	−43	−54	−59	−56	−47	−32	−13	23
12	− 8	−27	−44	−55	−59	−57	−47	−32	−13	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für *r* wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

p, 1930 Juli 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	+78	+75	+70	+63	+55	+47	+41	+36	+33	12^h
1	+86	+83	+77	+68	+59	+49	+41	+35	+31	13
2	+88	+85	+78	+69	+58	+48	+38	+31	+28	14
3	+85	+81	+74	+64	+54	+43	+33	+26	+22	15
4	+75	+72	+65	+56	+45	+35	+26	+19	+15	16
5	+61	+58	+52	+43	+34	+25	+16	+10	+ 7	17
6	+42	+40	+35	+28	+20	+13	+ 6	+ 1	− 2	18
7	+21	+19	+15	+11	+ 5	0	− 5	− 8	−10	19
8	− 2	− 3	− 5	− 7	−10	−13	−15	−17	−18	20
9	−25	−25	−25	−25	−25	−25	−25	−24	−24	21
10	−46	−45	−43	−41	−38	−35	−32	−30	−29	22
11	−64	−62	−59	−54	−48	−43	−38	−34	−32	23
12	−78	−75	−70	−63	−55	−47	−41	−36	−33	24

q, 1930 Juli 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0^h	+42	+40	+35	+29	+22	+15	+ 9	+ 5	+ 2	12^h
1	+21	+20	+19	+17	+16	+14	+12	+11	+10	13
2	− 2	− 1	+ 2	+ 5	+ 8	+11	+14	+17	+18	14
3	−25	−22	−16	− 9	0	+ 8	+16	+21	+24	15
4	−46	−41	−33	−21	− 9	+ 4	+16	+24	+29	16
5	−64	−58	−47	−33	−16	0	+15	+26	+31	17
6	−77	−71	−58	−42	−23	− 4	+13	+25	+32	18
7	−86	−79	−65	−48	−28	− 8	+10	+23	+30	19
8	−88	−81	−68	−51	−31	−11	+ 7	+19	+26	20
9	−85	−78	−66	−50	−32	−14	+ 3	+15	+21	21
10	−75	−70	−60	−46	−31	−15	− 2	+ 8	+14	22
11	−61	−57	−49	−39	−27	−16	− 6	+ 2	+ 6	23
12	−42	−40	−35	−29	−22	−15	− 9	− 5	− 2	24

r, 1930 Juli 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0^h	+ 1	+20	+37	+49	+55	+55	+48	+35	+18	12^h
1	+ 2	+22	+39	+52	+59	+58	+51	+37	+19	13
2	+ 1	+21	+39	+52	+58	+58	+50	+37	+19	14
3	+ 1	+19	+35	+47	+54	+53	+47	+34	+18	15
4	− 1	+15	+29	+40	+45	+46	+40	+30	+17	16
5	− 3	+ 9	+20	+29	+34	+35	+32	+25	+15	17
6	− 5	+ 3	+10	+16	+20	+22	+21	+18	+12	18
7	− 8	− 5	− 2	+ 2	+ 5	+ 8	+10	+10	+10	19
8	−10	−13	−13	−12	−10	− 6	− 2	+ 3	+ 7	20
9	−13	−20	−25	−26	−25	−20	−13	− 5	+ 4	21
10	−15	−27	−35	−38	−38	−32	−23	−11	+ 2	22
11	−17	−32	−43	−48	−48	−42	−31	−17	0	23
12	−18	−35	−48	−55	−55	−49	−37	−20	− 1	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r **wird mit der Deklination für** $0^h \leqq \alpha \leqq 12^h$ **in die obere, für** $12^h \leqq \alpha \leqq 24^h$ **in die untere Argumentenzeile eingegangen.**

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

p, 1930 August 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+65	+62	+55	+47	+37	+27	+19	+12	+ 9	12h
1	+80	+76	+69	+59	+47	+35	+25	+18	+14	13
2	+90	+85	+77	+66	+54	+41	+30	+22	+17	14
3	+93	+89	+80	+69	+57	+44	+33	+24	+20	15
4	+90	+86	+78	+68	+56	+44	+33	+25	+21	16
5	+81	+77	+71	+61	+51	+40	+31	+24	+21	17
6	+66	+64	+58	+51	+43	+35	+27	+22	+19	18
7	+47	+45	+42	+37	+32	+26	+21	+18	+16	19
8	+25	+24	+23	+21	+19	+16	+14	+13	+12	20
9	+ 1	+ 1	+ 2	+ 3	+ 4	+ 5	+ 6	+ 7	+ 7	21
10	−23	−22	−19	−15	−11	− 7	− 3	0	+ 2	22
11	−46	−43	−39	−32	−25	−18	−11	− 6	− 4	23
12	−65	−62	−55	−47	−37	−27	−19	−12	− 9	24

q, 1930 August 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+66	+61	+52	+39	+24	+10	− 3	−13	−18	12h
1	+47	+43	+36	+27	+16	+ 5	− 4	−12	−15	13
2	+25	+23	+19	+13	+ 7	0	− 5	− 9	−12	14
3	+ 1	0	− 1	− 2	− 3	− 5	− 6	− 7	− 7	15
4	−23	−22	−20	−16	−13	− 9	− 6	− 3	− 2	16
5	−46	−43	−37	−30	−21	−13	− 5	0	+ 3	17
6	−65	−61	−52	−41	−29	−16	− 5	+ 4	+ 8	18
7	−80	−74	−64	−50	−34	−18	− 4	+ 7	+12	19
8	−89	−83	−71	−55	−37	−18	− 2	+10	+16	20
9	−93	−86	−74	−57	−37	−18	− 1	+12	+19	21
10	−90	−83	−71	−54	−35	−16	+ 1	+13	+20	22
11	−81	−75	−63	−48	−31	−13	+ 2	+14	+20	23
12	−66	−61	−52	−39	−24	−10	+ 3	+13	+18	24

r, 1930 August 15

δ / α	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	−12	+ 3	+17	+29	+37	+41	+40	+35	+25	12h
1	−10	+ 8	+24	+38	+47	+50	+48	+40	+26	13
2	− 9	+11	+29	+44	+54	+57	+53	+43	+28	14
3	− 8	+12	+31	+47	+57	+59	+55	+44	+28	15
4	− 9	+12	+31	+46	+56	+59	+55	+44	+28	16
5	− 9	+10	+27	+42	+51	+54	+51	+42	+27	17
6	−11	+ 5	+21	+34	+43	+46	+45	+37	+26	18
7	−13	0	+12	+23	+32	+36	+36	+32	+24	19
8	−15	− 7	+ 2	+11	+19	+24	+26	+25	+21	20
9	−18	−14	− 9	− 3	+ 4	+10	+15	+18	+19	21
10	−20	−21	−20	−17	−11	− 4	+ 4	+11	+16	22
11	−23	−28	−31	−30	−25	−17	− 7	+ 4	+14	23
12	−25	−35	−40	−41	−37	−29	−17	− 3	+12	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für *r* wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \,.\, \Delta\alpha^m \,.\, \sec\delta + q \,.\, \Delta\delta' \,.\, \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \,.\, 15 \,.\, \Delta\alpha^m + r \,.\, \Delta\delta'$

p, 1930 September 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+41	+37	+30	+20	+9	−2	−12	−20	−24	12h
1	+60	+56	+47	+36	+23	+9	−2	−11	−15	13
2	+75	+71	+61	+49	+35	+21	+8	−1	−6	14
3	+85	+80	+71	+59	+44	+30	+18	+9	+4	15
4	+89	+85	+76	+64	+51	+38	+26	+18	+13	16
5	+85	+81	+74	+64	+52	+41	+31	+23	+20	17
6	+79	+76	+71	+63	+54	+45	+38	+32	+29	18
7	+66	+64	+60	+55	+50	+44	+39	+36	+34	19
8	+48	+47	+46	+44	+42	+40	+39	+37	+37	20
9	+27	+27	+29	+30	+32	+34	+35	+36	+37	21
10	+4	+6	+9	+14	+19	+25	+30	+33	+35	22
11	−19	−16	−11	−3	+5	+14	+22	+27	+30	23
12	−41	−37	−30	−20	−9	+2	+12	+20	+24	24

q, 1930 September 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+79	+72	+60	+44	+26	+7	−9	−21	−28	12h
1	+65	+59	+48	+33	+16	−1	−16	−27	−33	13
2	+47	+42	+33	+20	+6	−9	−22	−31	−36	14
3	+26	+22	+15	+6	−5	−16	−26	−33	−37	15
4	+3	+1	−3	−9	−16	−22	−28	−33	−35	16
5	−20	−21	−22	−23	−25	−27	−29	−30	−31	17
6	−42	−41	−39	−36	−33	−30	−27	−25	−24	18
7	−61	−58	−53	−46	−38	−31	−24	−19	−16	19
8	−76	−71	−64	−53	−41	−29	−19	−11	−7	20
9	−85	−80	−70	−57	−41	−26	−13	−3	+2	21
10	−89	−83	−72	−56	−39	−21	−6	+6	+12	22
11	−85	−79	−67	−51	−33	−15	0	+12	+18	23
12	−79	−72	−60	−44	−26	−7	+9	+21	+28	24

r, 1930 September 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	−22	−16	−8	0	+9	+16	+22	+25	+25	12h
1	−19	−9	+2	+13	+23	+29	+32	+32	+27	13
2	−17	−3	+12	+25	+35	+41	+42	+38	+29	14
3	−15	+2	+19	+34	+44	+50	+49	+43	+31	15
4	−14	+5	+24	+40	+51	+56	+54	+46	+32	16
5	−14	+6	+25	+41	+52	+57	+55	+46	+32	17
6	−14	+7	+26	+43	+54	+59	+56	+47	+32	18
7	−14	+5	+23	+39	+50	+55	+53	+45	+32	19
8	−16	+1	+17	+32	+42	+48	+47	+42	+30	20
9	−17	−4	+9	+22	+32	+38	+39	+36	+29	21
10	−20	−11	0	+10	+19	+26	+30	+30	+26	22
11	−22	−18	−11	−3	+5	+13	+19	+23	+24	23
12	−25	−25	−22	−16	−9	0	+8	+16	+22	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für *r* wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

$$\text{Korr.}\,(\Delta\alpha)^s = p\,.\,\Delta\alpha^m\,.\,\sec\delta + q\,.\,\Delta\delta'\,.\,\frac{1}{15}\sec^2\delta;\quad \text{Korr.}\,(\Delta\delta)'' = -q\,.\,15\,.\,\Delta\alpha^m + r\,.\,\Delta\delta'$$

p, 1930 Oktober 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+15	+11	+ 3	− 9	−21	−34	−45	−53	−57	12h
1	+34	+29	+20	+ 7	− 7	−22	−34	−44	−49	13
2	+51	+46	+36	+22	+ 7	− 8	−22	−32	−37	14
3	+65	+59	+50	+36	+21	+ 6	− 7	−17	−22	15
4	+74	+69	+60	+48	+34	+20	+ 8	− 2	− 6	16
5	+78	+73	+66	+56	+44	+32	+22	+14	+10	17
6	+76	+73	+67	+60	+51	+42	+35	+29	+26	18
7	+70	+68	+65	+60	+55	+50	+45	+42	+40	19
8	+59	+58	+57	+56	+55	+54	+53	+52	+51	20
9	+43	+44	+46	+49	+51	+54	+56	+58	+59	21
10	+25	+27	+32	+37	+44	+50	+56	+60	+63	22
11	+ 5	+ 9	+15	+24	+34	+44	+52	+59	+62	23
12	−15	−11	− 3	+ 9	+21	+34	+45	+53	+57	24

q, 1930 Oktober 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+76	+70	+58	+43	+26	+ 8	− 7	−19	−25	12h
1	+69	+63	+50	+34	+15	− 4	−20	−32	−39	13
2	+58	+51	+39	+23	+ 4	−15	−32	−44	−50	14
3	+42	+36	+25	+10	− 8	−26	−41	−52	−58	15
4	+24	+19	+ 9	− 4	−19	−34	−47	−57	−62	16
5	+ 4	0	− 7	−17	−29	−40	−51	−58	−62	17
6	−16	−18	−23	−30	−37	−44	−50	−55	−58	18
7	−35	−36	−38	−40	−42	−45	−47	−49	−49	19
8	−52	−51	−49	−47	−45	−42	−40	−39	−38	20
9	−65	−62	−58	−51	−44	−37	−31	−26	−23	21
10	−74	−70	−62	−52	−41	−29	−19	−11	− 7	22
11	−77	−72	−62	−49	−34	−19	− 6	+ 4	+ 9	23
12	−76	−70	−58	−43	−26	− 8	+ 7	+19	+25	24

r, 1930 Oktober 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	−26	−30	−30	−28	−21	−12	− 2	+ 9	+18	12h
1	−23	−23	−20	−15	− 7	+ 1	+ 9	+15	+21	13
2	−21	−16	− 9	− 1	+ 7	+14	+20	+23	+23	14
3	−18	− 9	+ 2	+12	+21	+27	+30	+30	+26	15
4	−16	− 2	+11	+24	+34	+39	+40	+36	+28	16
5	−14	+ 3	+19	+34	+44	+49	+48	+41	+29	17
6	−13	+ 6	+25	+40	+51	+56	+53	+45	+31	18
7	−12	+ 8	+28	+44	+55	+59	+56	+47	+31	19
8	−12	+ 8	+28	+44	+55	+59	+56	+47	+31	20
9	−13	+ 7	+25	+41	+51	+56	+53	+45	+31	21
10	−14	+ 3	+19	+34	+44	+49	+48	+41	+29	22
11	−16	− 2	+12	+24	+34	+39	+40	+36	+28	23
12	−18	− 9	+ 2	+12	+21	+28	+30	+30	+26	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$; liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \cdot \Delta\alpha^m \cdot \sec\delta + q \cdot \Delta\delta' \cdot \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \cdot 15 \cdot \Delta\alpha^m + r \cdot \Delta\delta'$

p, 1930 November 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	−6	−11	−20	−33	−47	−61	−74	−83	−88	12h
1	+10	+4	−6	−21	−37	−53	−67	−77	−83	13
2	+24	+18	+7	−7	−24	−40	−55	−66	−71	14
3	+37	+31	+21	+7	−9	−25	−39	−50	−55	15
4	+47	+42	+33	+20	+6	−9	−21	−31	−36	16
5	+54	+50	+42	+32	+20	+9	−2	−9	−13	17
6	+58	+55	+49	+42	+34	+25	+18	+13	+10	18
7	+57	+56	+53	+49	+45	+40	+37	+34	+32	19
8	+53	+53	+53	+53	+53	+53	+53	+53	+53	20
9	+45	+46	+49	+53	+57	+61	+65	+68	+69	21
10	+34	+36	+42	+49	+57	+66	+73	+78	+81	22
11	+20	+24	+32	+42	+54	+66	+76	+84	+88	23
12	+6	+11	+20	+33	+47	+61	+74	+83	+88	24

q, 1930 November 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+57	+53	+46	+36	+24	+13	+3	−5	−9	12h
1	+57	+51	+41	+28	+13	−3	−16	−26	−31	13
2	+52	+46	+34	+18	0	−18	−34	−46	−52	14
3	+44	+37	+24	+7	−13	−32	−49	−62	−69	15
4	+32	+26	+13	−5	−24	−44	−61	−74	−81	16
5	+19	+13	+1	−16	−34	−53	−69	−81	−87	17
6	+4	−1	−12	−26	−42	−58	−72	−83	−88	18
7	−11	−15	−23	−34	−47	−59	−70	−78	−83	19
8	−25	−28	−33	−40	−48	−57	−64	−69	−72	20
9	−38	−39	−41	−44	−47	−50	−53	−55	−56	21
10	−48	−47	−46	−44	−42	−40	−38	−37	−36	22
11	−54	−52	−47	−41	−34	−27	−21	−17	−14	23
12	−57	−53	−46	−36	−24	−13	−3	+5	+9	24

r, 1930 November 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	−23	−36	−45	−49	−47	−39	−27	−11	+6	12h
1	−21	−31	−37	−39	−37	−29	−19	−6	+8	13
2	−19	−25	−28	−27	−24	−17	−9	+1	+10	14
3	−16	−17	−17	−14	−9	−4	+2	+8	+13	15
4	−13	−10	−5	+1	+6	+11	+14	+16	+15	16
5	−11	−2	+6	+14	+20	+24	+25	+23	+18	17
6	−9	+4	+16	+27	+34	+37	+35	+30	+20	18
7	−7	+10	+25	+37	+45	+47	+44	+35	+22	19
8	−5	+14	+31	+44	+53	+54	+50	+39	+24	20
9	−5	+16	+34	+49	+57	+59	+53	+41	+24	21
10	−4	+16	+35	+49	+57	+59	+53	+41	+24	22
11	−5	+14	+32	+46	+54	+56	+51	+40	+24	23
12	−6	+11	+27	+39	+47	+49	+45	+36	+23	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

Die Einheit der Tafelwerte ist 0.0001. Die Vorzeichen gelten für $0^h \leqq \alpha \leqq 12^h$: liegt α zwischen 12^h und 24^h, so sind bei allen Tafeln die Vorzeichen umzukehren.

Korr. $(\Delta\alpha)^s = p \cdot \Delta\alpha^m \cdot \sec\delta + q \cdot \Delta\delta' \cdot \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \cdot 15 \cdot \Delta\alpha^m + r \cdot \Delta\delta'$

p, 1930 Dezember 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	−12	−17	−28	−43	−59	−76	−90	−101	−107	12h
1	− 3	−10	−21	−37	−55	−73	−89	−101	−107	13
2	+ 5	− 1	−13	−29	−48	−66	−82	− 94	−100	14
3	+13	+ 7	− 4	−19	−37	−54	−69	− 80	− 86	15
4	+21	+15	+ 5	− 8	−23	−38	−52	− 62	− 67	16
5	+26	+22	+14	+ 4	− 8	−20	−31	− 39	− 43	17
6	+30	+28	+22	+15	+ 7	− 1	− 8	− 13	− 16	18
7	+32	+31	+29	+26	+22	+19	+16	+ 14	+ 13	19
8	+32	+33	+33	+35	+36	+37	+38	+ 39	+ 40	20
9	+30	+32	+36	+41	+47	+53	+58	+ 62	+ 64	21
10	+25	+29	+35	+45	+55	+65	+74	+ 81	+ 84	22
11	+19	+24	+33	+45	+59	+73	+85	+ 94	+ 99	23
12	+12	+17	+28	+43	+59	+76	+90	+101	+107	24

q, 1930 Dezember 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	δ / α
0h	+31	+30	+28	+26	+23	+21	+19	+ 17	+ 16	12h
1	+32	+29	+24	+18	+10	+ 2	− 4	− 9	− 12	13
2	+32	+27	+19	+ 8	− 4	−16	−27	− 35	− 39	14
3	+29	+23	+13	− 2	−18	−34	−48	− 58	− 64	15
4	+24	+17	+ 5	−11	−30	−49	−65	− 78	− 84	16
5	+18	+11	− 3	−20	−41	−61	−79	− 92	− 99	17
6	+10	+ 3	−10	−28	−48	−68	−86	− 99	−106	18
7	+ 2	− 5	−17	−34	−53	−72	−88	−100	−107	19
8	− 7	−12	−23	−37	−53	−70	−84	− 95	−100	20
9	−15	−19	−27	−38	−51	−63	−74	− 82	− 87	21
10	−22	−24	−29	−36	−44	−52	−59	− 64	− 67	22
11	−27	−28	−30	−32	−35	−38	−40	− 42	− 43	23
12	−31	−30	−28	−26	−23	−21	−19	− 17	− 16	24

r, 1930 Dezember 15

α \ δ	−80°	−60°	−40°	−20°	0°	+20°	+40°	+60°	+80°	
0h	−13	−32	−47	−57	−59	−54	−43	−27	− 7	12h
1	−13	−30	−44	−53	−55	−51	−40	−25	− 7	13
2	−11	−27	−38	−46	−48	−44	−34	−21	− 5	14
3	−10	−21	−30	−35	−37	−33	−26	−16	− 3	15
4	− 7	−14	−20	−23	−23	−21	−16	− 9	− 1	16
5	− 5	− 7	− 8	− 9	− 8	− 7	− 4	− 1	+ 2	17
6	− 2	+ 1	+ 4	+ 6	+ 7	+ 8	+ 8	+ 6	+ 4	18
7	+ 1	+ 9	+15	+20	+22	+22	+19	+14	+ 7	19
8	+ 3	+15	+26	+33	+36	+35	+30	+21	+ 9	20
9	+ 5	+21	+34	+43	+47	+45	+38	+26	+11	21
10	+ 6	+25	+40	+50	+55	+53	+44	+30	+13	22
11	+ 7	+27	+43	+54	+59	+57	+47	+32	+13	23
12	+ 7	+27	+43	+54	+59	+57	+47	+32	+13	24
	+80°	+60°	+40°	+20°	0°	−20°	−40°	−60°	−80°	α / δ

Bei der Tafel für r wird mit der Deklination für $0^h \leqq \alpha \leqq 12^h$ in die obere, für $12^h \leqq \alpha \leqq 24^h$ in die untere Argumentenzeile eingegangen.

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Korr. $(\Delta\alpha)^s = p \cdot \Delta\alpha^m \cdot \sec\delta + q \cdot \Delta\delta' \cdot \frac{1}{15} \sec^2\delta$; Korr. $(\Delta\delta)'' = -q \cdot 15 \cdot \Delta\alpha^m + r \cdot \Delta\delta'$

Reduktionsgrößen 1930

Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1930.0 auf das Normaläquinoktium 1925.0

α	a_1	a_2	d_1	α	α	a_1	a_2	d_1	α
h m	s	s	″	h m	h m	s	s	″	h m
0 0	−0.0292−	−0.0000+	+0.000−	24 0	6 0	+0.0000+	−0.0292+	+0.437−	18 0
10	291	13	19	50	10	13	291	437	50
20	290	25	38	40	20	25	290	436	40
30	289	38	57	30	30	38	289	434	30
40	287	50	76	20	40	50	287	431	20
50	285	63	95	10	50	63	285	427	10
1 0	−0.0282−	−0.0075+	+0.113−	23 0	7 0	+0.0075+	−0.0282+	+0.422−	17 0
10	278	088	132	50	10	088	278	417	50
20	274	100	150	40	20	100	274	411	40
30	269	112	168	30	30	112	269	404	30
40	264	123	185	20	40	123	264	396	20
50	259	135	202	10	50	135	259	388	10
2 0	−0.0253−	−0.0146+	+0.219−	22 0	8 0	+0.0146+	−0.0253+	+0.379−	16 0
10	246	157	235	50	10	157	246	369	50
20	239	167	251	40	20	167	239	358	40
30	231	177	266	30	30	177	231	347	30
40	223	187	281	20	40	187	223	335	20
50	215	197	295	10	50	197	215	322	10
3 0	−0.0206−	206+	+0.309−	21 0	9 0	+0.0206+	−0.0206+	+0.309−	15 0
10	197	215	322	50	10	215	197	295	50
20	187	223	335	40	20	223	187	281	40
30	177	231	347	30	30	231	177	266	30
40	167	239	358	20	40	239	167	251	20
50	157	246	369	10	50	246	157	235	10
4 0	−0.0146−	−0.0253+	+0.379−	20 0	10 0	+0.0253+	−0.0146+	+0.219−	14 0
10	135	259	388	50	10	259	135	202	50
20	123	264	396	40	20	264	123	185	40
30	112	269	404	30	30	269	112	168	30
40	100	274	411	20	40	274	100	150	20
50	088	278	417	10	50	278	088	132	10
5 0	−0.0075−	−0.0282+	+0.422−	19 0	11 0	+0.0282+	−0.0075+	+0.113−	13 0
10	63	285	427	50	10	285	63	95	50
20	50	287	431	40	20	287	50	76	40
30	38	289	434	30	30	289	38	57	30
40	25	290	436	20	40	290	25	38	20
50	13	291	437	10	50	291	13	19	10
6 0	−0.0000−	−0.0292+	+0.437−	18 0	12 0	+0.0292+	−0.0000+	+0.000−	12 0

Für α zwischen 12^h und 24^h gelten die Vorzeichen zur Rechten.

$\Delta p_\alpha^s = a_1 \cdot \mathrm{tg}\,\delta \cdot \Delta\alpha^m + a_2 \cdot \frac{1}{15} \sec^2\delta \cdot \Delta\delta'; \qquad \Delta p_\delta'' = d_1 \cdot \Delta\alpha^m$

$\Delta\alpha^m$ bedeutet die Rektaszensionsdifferenz in Zeitminuten, $\Delta\delta'$ ist die Deklinationsdifferenz in Bogenminuten.

Die Werte von tg δ und $\frac{1}{15}\sec^2\delta$ sind auf S. 267* enthalten.

Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium

0^h Welt-Zeit	f	log g	G	0^h Welt-Zeit	f	log g	G
1930				1930			
Jan. 0	+14.728	1.983689	23 44 16	Mai 16	+15.889	2.016766	23 43 12
4	14.776	1.985098	23 44 12	20	15.930	2.017855	23 43 21
8	14.822	1.986494	23 44 6	24	15.972	2.018971	23 43 29
12	14.868	1.987858	23 43 59	28	16.014	2.020113	23 43 37
16	14.913	1.989183	23 43 51	Juni 1	16.058	2.021280	23 43 44
20	+14.957	1.990468	23 43 42	5	+16.103	2.022474	23 43 50
24	14 999	1.991704	23 43 32	9	16.148	2.023685	23 43 55
28	15.040	1.992898	23 43 22	13	16.194	2.024908	23 43 59
Febr. 1	15.080	1 994053	23 43 11	17	16.240	2.026141	23 44 1
5	15.117	1.995161	23 43 0	21	16.287	2.027378	23 44 3
9	+15.153	1.996227	23 42 48	25	+16.333	2.028616	23 44 3
13	15.188	1.997247	23 42 37	29	16.380	2.029851	23 44 2
17	15.221	1.998224	23 42 27	Juli 3	16.426	2.031081	23 44 0
21	15.253	1.999157	23 42 17	7	16.471	2.032202	23 43 57
25	15.283	2.000043	23 42 8	11	16.516	2.033484	23 43 53
März 1	+15.312	2.000889	23 42 0	15	+16.560	[illegible]4653	23 43 47
5	15.341	2.001699	23 41 54	19	16.604	[illegible]5798	23 43 41
9	15.368	2.002486	23 41 48	23	16.646	2.036912	23 43 34
13	15.395	2.003249	23 41 44	27	16.687	2.038000	23 43 27
17	15.421	2.004003	23 41 41	31	16.727	2.039061	23 43 19
21	+15.448	2.004747	23 41 39	Aug. 4	+16.766	2.040088	23 43 11
25	15.474	2.005490	23 41 39	8	16.803	2.041073	23 43 2
29	15.500	2.006231	23 41 41	12	16.839	2.042020	23 42 53
April 2	15.527	2.006975	23 41 43	16	16.874	2.042934	23 42 45
6	15.555	2.007731	23 41 48	20	16.907	2.043810	23 42 37
10	+15.583	2.008502	23 41 53	24	+16.939	2.044657	23 42 29
14	15.612	2.009298	23 41 59	28	16.970	2.045471	23 42 22
18	15.642	2.010117	23 42 7	Sept. 1	17.000	2.046257	23 42 15
22	15.673	2.010961	23 42 15	5	17.029	2.047010	23 42 9
26	15.706	2.011837	23 42 24	9	17.058	2.047738	23 42 4
Mai 30	+15.740	2.012749	23 42 33	13	+17.085	2.048442	23 42 1
4	15.775	2.013701	23 42 43	17	17.112	2.049132	23 41 58
8	15.812	2.014689	23 42 53	21	17.139	2.049811	23 41 56
12	15.850	2.015712	23 43 2	25	17.165	2.050480	23 41 56
16	+15.889	2.016766	23 43 12	29	+17.192	2.051149	23 41 57

Reduktionsgrößen 1930

Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium

0ʰ Welt-Zeit	f	log g	G	0ʰ Welt-Zeit	f	log g	G
1930				1930			
Sept. 29	+17.192 ˢ	2.051149	23ʰ 41ᵐ 57ˢ	Nov. 16	+17.580 ˢ	2.060630	23ʰ 43ᵐ 25ˢ
Okt. 3	17.219	2.051820	23 42 0	20	17.621	2.061630	23 43 35
7	17.246	2.052502	23 42 3	24	17.664	2.062661	23 43 44
11	17.274	2.053194	23 42 8	28	17.708	2.063724	23 43 52
15	17.303	2.053900	23 42 13	Dez. 2	17.754	2.064821	23 44 0
19	+17.333	2.054632	23 42 20	6	+17.800	2.065942	23 44 6
23	17.364	2.055390	23 42 28	10	17.847	2.067086	23 44 12
27	17.396	2.056180	23 42 37	14	17.895	2.068242	23 44 16
31	17.430	2.057000	23 42 46	18	17.944	2.069409	23 44 20
Nov. 4	17.465	2.057852	23 42 55	22	17.992	2.070585	23 44 22
8	+17.502	2.058741	23 43 5	26	+18.041	2.071761	23 44 22
12	17.540	2.059666	23 43 15	30	18.090	2.072937	23 44 22
16	+17.580	2.060630	23 43 25	34	+18.138	2.074096	23 44 20

$$\text{Red. in } \alpha = f + \tfrac{1}{15}\, g \sin(G+\alpha) \operatorname{tg} \delta$$
$$\text{Red. in } \delta = g \cos(G+\alpha)$$

Korrektion der Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium (s. S. 281*—282*), berechnet für 1930.0, mit Hinzufügung ihrer einjährigen Änderung

α	δ															
	+60°		+50°		+30°		+10°		−10°		−30°		−50°		−60°	
	Für Rektaszension (in 0ˢ.001)															
0ʰ	+7	+3	+5	+2	+2	+1	+1	0	0	0	−2	−1	−4	−2	−6	−2
1	+9	+4	+6	+2	+3	+1	+1	+1	0	0	−1	0	−2	−1	−3	−1
2	+11	+4	+7	+3	+3	+1	+2	+1	0	0	0	0	−1	0	0	0
3	+10	+4	+6	+3	+3	+1	+2	+1	+1	0	0	0	0	0	+1	+1
4	+8	+3	+5	+2	+2	+1	+1	+1	+1	0	0	0	+1	0	+2	+1
5	+5	+2	+3	+1	+1	+1	+1	0	+1	0	0	0	+1	0	+2	+1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	−4	−2	−3	−1	−1	0	0	0	0	0	0	0	0	0	−1	0
8	−8	−3	−5	−2	−2	−1	−1	0	0	0	0	0	0	0	−1	−1
9	−10	−4	−6	−2	−3	−1	−1	0	0	0	0	0	0	0	−1	0
10	−10	−4	−6	−3	−3	−1	−1	0	0	0	+1	0	+1	+1	+1	0
11	−9	−4	−6	−2	−3	−1	−1	0	0	0	+2	+1	+3	+1	+4	+1
12	−6	−2	−4	−2	−2	−1	0	0	+1	0	+2	+1	+5	+2	+7	+3
13	−3	−1	−2	−1	−1	0	0	0	+1	+1	+3	+1	+6	+2	+9	+4
14	0	0	−1	0	0	0	0	0	+2	+1	+3	+1	+7	+3	+11	+4
15	+1	+1	0	0	0	0	+1	0	+2	+1	+3	+1	+6	+3	+10	+4
16	+2	+1	+1	0	0	0	+1	0	+1	+1	+2	+1	+5	+2	+8	+3
17	+1	+1	+1	0	0	0	+1	0	+1	0	+1	+1	+3	+1	+5	+2
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	−1	0	0	0	0	0	0	0	0	0	−1	0	−3	−1	−4	−2
20	−1	−1	0	0	0	0	0	0	−1	0	−2	−1	−5	−2	−8	−3
21	−1	0	0	0	0	0	0	0	−1	0	−3	−1	−6	−2	−10	−4
22	+1	0	+1	+1	+1	0	0	0	−1	0	−3	−1	−6	−3	−10	−4
23	+4	+1	+3	+1	+2	+1	0	0	−1	0	−3	−1	−6	−2	−9	−4
24	+7	+3	+5	+2	+2	+1	+1	0	0	0	−2	−1	−4	−2	−6	−2
	Für Deklination (in 0″.01)															
0ʰ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	−2	−1	−2	−1	−2	−1	−2	−1	−2	−1	−1	−1	−1	−1	−1	−1
2	−4	−2	−4	−1	−3	−1	−3	−1	−3	−1	−3	−1	−2	−1	−2	−1
3	−6	−2	−5	−2	−5	−2	−4	−2	−4	−2	−3	−1	−3	−1	−2	−1
4	−8	−3	−7	−3	−6	−2	−5	−2	−5	−2	−4	−2	−3	−1	−2	−1
5	−9	4	−8	−3	−7	−3	−6	−2	−5	−2	−4	−2	−3	−1	−2	−1
6	−10	−4	−9	−3	−7	−3	−6	−2	−5	−2	−4	−2	−3	−1	−1	−1
7	−9	−4	−8	−3	−7	−3	−6	−2	−5	−2	−4	−2	−3	−1	−1	−1
8	−8	−3	−7	−3	−6	−2	−5	−2	−4	−2	−4	−2	−3	−1	−2	−1
9	−6	−2	−5	−2	−5	−2	−4	−2	−4	−1	−3	−2	−2	−1	−2	−1
10	−4	−2	−3	−1	−3	−1	−3	−1	−3	−1	−2	−1	−2	−1	−2	−1
11	−2	−1	−2	−1	−1	−1	−1	1	−1	−1	−1	0	−1	0	−1	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	+1	+1	+1	+1	+1	+1	+2	+1	+2	+1	+2	+1	+2	+1	+2	+1
14	+2	+1	+2	+1	+3	+1	+3	+1	+3	+1	+3	+1	+4	+1	+4	+2
15	+2	+1	+3	+1	+3	+1	+4	+2	+4	+2	+5	+2	+5	+2	+6	+2
16	+2	+1	+3	+1	+4	+2	+5	+2	+5	+2	+6	+2	+7	+3	+8	+3
17	+2	+1	+3	+1	+4	+2	+5	+2	+6	+2	+7	+3	+8	+3	+9	+4
18	+1	+1	+3	+1	+4	+2	+5	+2	+6	+2	+7	+3	+9	+3	+10	+4
19	+1	+1	+3	+1	+4	+2	+5	+2	+6	+2	+7	+3	+8	+3	+9	+4
20	+2	+1	+3	+1	+4	+1	+4	+2	+5	+2	+6	+2	+7	+3	+8	+3
21	+2	+1	+2	+1	+3	+1	+4	+1	+4	+2	+5	+2	+5	+2	+6	+2
22	+2	+1	+2	+1	+2	+1	+3	+1	+3	+1	+3	+1	+3	+1	+4	+2
23	+1	0	+1	0	+1	0	+1	+1	+1	+1	+1	+1	+2	+1	+2	+1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

α	0^h, 12^h		1^h, 13^h		2^h, 14^h		3^h, 15^h		4^h, 16^h		5^h, 17^h		α
m	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	m
	s	″	s	″	s	″	s	″	s	″	s	″	
0		100.22	1.726	96.82	3.337	86.82	4.722	70.91	5.784	50.16	6.453	25.99	0
1	0.026	100.22	754	96.71	363	86.60	743	70.60	799	49.78	461	25.57	1
2	055	100.22	782	96.59	388	86.38	763	70.29	813	49.40	468	25.15	2
3	084	100.21	810	96.47	413	86.16	784	69.98	828	49.02	475	24.73	3
4	113	100.21	838	96.35	438	85.94	804	69.67	842	48.64	482	24.31	4
5	142	100.20	866	96.23	463	85.71	824	69.35	856	48.25	489	23.88	5
6	172	100.19	894	96.11	488	85.48	844	69.03	870	47.87	496	23.46	6
7	201	100.18	922	95.98	513	85.25	864	68.71	884	47.49	503	23.03	7
8	230	100.16	950	95.86	538	85.02	884	68.39	898	47.10	509	22.61	8
9	259	100.15	1.978	95.73	563	84.79	904	68.07	912	46.72	516	22.18	9
10	0.288	100.13	2.005	95.60	3.587	84.56	4.924	67.75	5.925	46.33	6.522	21.75	10
11	317	100.11	033	95.47	612	84.32	944	67.43	938	45.94	528	21.33	11
12	346	100.09	061	95.33	636	84.08	963	67.10	952	45.55	534	20.90	12
13	375	100.06	089	95.20	661	83.84	4.983	66.78	965	45.16	540	20.47	13
14	404	100.04	117	95.06	685	83.60	5.002	66.45	978	44.77	546	20.04	14
15	433	100.01	144	94.92	709	83.36	021	66.12	5.991	44.38	552	19.61	15
16	463	99.98	172	94.78	733	83.12	040	65.79	6.004	43.99	558	19.18	16
17	492	99.95	200	94.64	757	82.87	059	65.46	017	43.60	563	18.75	17
18	521	99.91	227	94.49	781	82.63	078	65.13	029	43.20	569	18.32	18
19	550	99.88	255	94.35	805	82.38	097	64.80	042	42.81	574	17.89	19
20	0.579	99.84	2.282	94.20	3.829	82.13	5.116	64.46	6.054	42.41	6.579	17.46	20
21	608	99.80	309	94.05	853	81.88	135	64.13	066	42.02	584	17.03	21
22	637	99.76	337	93.90	877	81.63	153	63.79	078	41.62	589	16.60	22
23	666	99.72	364	93.74	901	81.37	172	63.45	090	41.22	594	16.17	23
24	695	99.68	391	93.59	924	81.12	190	63.11	102	40.82	599	15.74	24
25	724	99.63	418	93.43	948	80.86	208	62.77	114	40.42	603	15.30	25
26	753	99.58	445	93.27	971	80.60	226	62.43	126	40.02	608	14.87	26
27	782	99.53	472	93.11	3.995	80.34	244	62.09	137	39.62	612	14.44	27
28	811	99.48	499	92.94	4.018	80.07	262	61.74	149	39.22	616	14.01	28
29	840	99.43	526	92.78	041	79.81	280	61.40	160	38.82	620	13.58	29
30	0.868	99.37	2.553	92.61	4.064	79.54	5.298	61.05	6.171	38.41	6.624	13.14	30
31	897	99.31	580	92.44	087	79.27	316	60.71	182	38.01	628	12.71	31
32	926	99.25	607	92.27	110	79.00	334	60.36	193	37.60	631	12.28	32
33	955	99.19	634	92.10	133	78.73	351	60.01	204	37.20	635	11.84	33
34	0.984	99.13	661	91.93	156	78.46	369	59.66	215	36.79	638	11.41	34
35	1.013	99.06	687	91.76	179	78.19	386	59.31	226	36.38	641	10.97	35
36	042	98.99	714	91.58	202	77.92	403	58.96	236	35.97	644	10.54	36
37	071	98.92	740	91.40	225	77.64	420	58.60	247	35.56	647	10.10	37
38	100	98.85	767	91.22	247	77.37	437	58.25	257	35.15	650	9.67	38
39	129	98.78	793	91.04	270	77.09	454	57.89	267	34.74	653	9.23	39
40	1.157	98.71	2.820	90.86	4.292	76.81	5.471	57.53	6.277	34.33	6.656	8.79	40
41	186	98.63	847	90.67	314	76.53	488	57.17	287	33.92	659	8.36	41
42	215	98.55	873	90.48	336	76.25	504	56.81	297	33.51	661	7.92	42
43	243	98.47	900	90.29	358	75.96	521	56.45	307	33.10	663	7.49	43
44	272	98.39	926	90.10	380	75.68	537	56.09	317	32.69	665	7.05	44
45	300	98.31	952	89.91	402	75.39	553	55.73	326	32.27	667	6.61	45
46	329	98.22	2.978	89.72	424	75.10	569	55.37	335	31.86	669	6.18	46
47	357	98.13	3.004	89.52	446	74.81	585	55.00	344	31.44	671	5.74	47
48	386	98.04	030	89.32	468	74.52	601	54.64	353	31.03	672	5.31	48
49	414	97.95	056	89.12	490	74.23	617	54.27	362	30.61	674	4.87	49
50	1.442	97.86	3.082	88.92	4.511	73.93	5.633	53.90	6.371	30.19	6.675	4.43	50
51	471	97.76	108	88.72	533	73.63	649	53.53	380	29.78	676	4.00	51
52	499	97.66	134	88.51	554	73.33	664	53.16	388	29.36	677	3.56	52
53	528	97.56	159	88.31	576	73.03	680	52.79	397	28.94	678	3.12	53
54	556	97.46	185	88.10	597	72.73	695	52.42	405	28.52	679	2.68	54
55	584	97.36	210	87.89	618	72.43	710	52.04	413	28.10	680	2.24	55
56	613	97.26	236	87.68	639	72.13	725	51.67	421	27.68	681	1.81	56
57	641	97.15	261	87.47	660	71.83	740	51.29	429	27.26	681	1.37	57
58	670	97.04	287	87.25	681	71.52	755	50.92	437	26.84	681	0.94	58
59	698	96.93	312	87.04	702	71.22	770	50.54	445	26.42	681	0.50	59
60	1.726	96.82	3.337	86.82	4.722	70.91	5.784	50.16	6.453	25.99	6.681	0.06	60

α	6h, 18h		7h, 19h		8h, 20h		9h, 21h		10h, 22h		11h, 23h		α
m	−A₁+	+D−	−A₁+	+D−	−A₁+	+D−	−A₁+	+D−	−A₁+	+D−	−A₁+	+D−	m
0	6.681		6.455	25.89	5.788	50.06	4.727	70.83	3.344	86.77	1.733	96.79	0
1	681	0.38	447	26.31	774	50.44	707	71.14	319	86.99	705	96.90	1
2	681	0.82	439	26.73	759	50.82	686	71.45	294	87.20	677	97.01	2
3	681	1.26	431	27.15	744	51.19	665	71.75	268	87.42	649	97.12	3
4	681	1.70	423	27.57	729	51.57	644	72.06	243	87.63	621	97.23	4
5	680	2.13	415	27.99	714	51 94	623	72.36	217	87.84	592	97.34	5
6	679	2.57	407	28.41	699	52.32	602	72.66	192	88.05	564	97.44	6
7	678	3.01	399	28.83	684	52.69	581	72.96	166	88.26	536	97.54	7
8	677	3.45	390	29.25	668	53.06	560	73.26	140	88.46	507	97.64	8
9	676	3 89	382	29.67	653	53.43	539	73.56	114	88.67	479	97.74	9
10	6.675	4.32	6.373	30.08	5.637	53.80	4.517	73.85	3.088	88.87	1.450	97.83	10
11	674	4.76	364	30.50	621	54.17	496	74.15	062	89.07	422	97.92	11
12	672	5.20	355	30.92	605	54.54	474	74.44	036	89.27	393	98.01	12
13	671	5.63	346	31.33	589	54.90	452	74.73	3.010	89.47	365	98.10	13
14	669	6.07	337	31.75	573	55.27	430	75.02	2.984	89.67	336	98.19	14
15	667	6.50	328	32.16	557	55.63	408	75.31	958	89.86	307	98.28	15
16	665	6.94	319	32.58	541	56.00	386	75.60	932	90.05	279	98.37	16
17	663	7.38	309	32.99	525	56.36	364	75.89	906	90.24	250	98.45	17
18	661	7.81	300	33.40	508	56.72	342	76.17	880	90.43	222	98.53	18
19	659	8.25	290	33.81	492	57.08	320	76.46	854	90.62	193	98.61	19
20	6.656	8.68	6.280	34.22	5.475	57.44	4.298	76.74	2.827	90.81	1.164	98.69	20
21	654	9.12	270	34.63	458	57.80	276	77.02	801	90.99	136	98.77	21
22	651	9.56	260	35.04	441	58.16	253	77.30	774	91.17	107	98.84	22
23	648	9 99	249	35.45	424	58.51	231	77.58	748	91.35	078	98.91	23
24	645	10.43	239	35.86	407	58.87	208	77.86	721	91.53	049	98.98	24
25	642	10.86	228	36.27	390	59.22	185	78.13	694	91.71	1.020	99.05	25
26	639	11.30	218	36.68	373	59.57	162	78.40	668	91.89	0.992	99.12	26
27	636	11.73	207	37.09	356	59.92	139	78.67	641	92.06	963	99.18	27
28	632	12.17	196	37.49	338	60.27	116	78.94	614	92.23	934	99.24	28
29	629	12.60	185	37.90	321	60.62	093	79.21	587	92.40	905	99.30	29
30	6.625	13.03	6.174	38.30	5.303	60.97	4.070	79.48	2.560	92.57	0.876	99.36	30
31	621	13.47	163	38.71	285	61.32	047	79.75	533	92.74	847	99.42	31
32	617	13.90	152	39.11	267	61.66	024	80.01	506	92.90	818	99.47	32
33	613	14.33	140	39.51	249	62.01	4.001	80.27	479	93.07	789	99.52	33
34	609	14.76	129	39.91	231	62.35	3.978	80.53	452	93.23	760	99.57	34
35	604	15.19	117	40.31	213	62.69	954	80.79	425	93.39	731	99.62	35
36	600	15.63	105	40.71	195	63.03	931	81.05	398	93.55	702	99.67	36
37	595	16.06	093	41.11	177	63.37	907	81.30	371	93.70	673	99.71	37
38	590	16.49	081	41.51	158	63.71	883	81.56	344	93.86	644	99.75	38
39	585	16.92	069	41.91	140	64.05	859	81.81	317	94.01	615	99.79	39
40	6.580	17.35	6.057	42.30	5.121	64.38	3.835	82.06	2.289	94.16	0.586	99.83	40
41	575	17.78	045	42.70	102	64.72	811	82.31	262	94.31	557	99.87	41
42	570	18.21	032	43.10	083	65.05	787	82.56	234	94.45	528	99.90	42
43	565	18.64	020	43.49	064	65.38	763	82.81	207	94.60	499	99.94	43
44	560	19.07	6.007	43.89	045	65.71	739	83.06	179	94.74	470	99.97	44
45	554	19.50	5.994	44.28	026	66.04	715	83.30	151	94.88	441	100.00	45
46	548	19.93	981	44.67	5.007	66.37	691	83.54	124	95.02	412	100.03	46
47	542	20.36	968	45.06	4.988	66.70	667	83.78	096	95.16	383	100.05	47
48	536	20.79	955	45.45	968	67.02	642	84.02	069	95.30	354	100.08	48
49	530	21.22	942	45.84	949	67.35	618	84.26	041	95.44	325	100.10	49
50	6.524	21.64	5.928	46.23	4.929	67.67	3.593	84.50	2.013	95.57	0.295	100.12	50
51	518	22.07	915	46.62	909	67.99	569	84.73	1.985	95.70	266	100.14	51
52	511	22.50	901	47.01	889	68.31	544	84.96	957	95.83	237	100.16	52
53	505	22.92	888	47.39	869	68.63	519	85.19	929	95.95	208	100.17	53
54	498	23.35	874	47.78	849	68.95	494	85.42	901	96.08	179	100.19	54
55	491	23.77	860	48.16	829	69.26	469	85.65	873	96.20	150	100.20	55
56	484	24.20	846	48.54	809	69.58	444	85.88	845	96.32	121	100.21	56
57	477	24.62	832	48.92	789	69.89	419	86.10	817	96.44	092	100.21	57
58	470	25.05	817	49.30	768	70.21	394	86.33	789	96.56	063	100.22	58
59	463	25.47	803	49.68	748	70.52	369	86.55	761	96.68	034	100.22	59
60	6.455	25.89	5.788	50.06	4.727	70.83	3.344	86.77	1.733	96.79	0.004	100.22	60

Übertragung von Sternörtern vom mittleren Äquinoktium 1930.0 auf das Normaläquinoktium 1925.0

α	A	A_2	D_1	α	α	A	A_2	D_1	α
0h 0m	s −15.364	s +0.0000	" −0.000	12h 0m	6h 0m	s −15.364	s −0.0000	" −0.024	18h 0
10	364	1	0	10	10	364	1	24	10
20	364	3	0	20	20	364	3	24	20
30	364	4	0	30	30	364	4	24	30
40	364	6	1	40	40	365	6	24	40
50	364	7	1	50	50	365	7	23	50
1 0	−15.364	+0.0008	−0.002	13 0	7 0	−15.365	−0.0008	−0.023	19 0
10	364	09	2	10	10	365	09	22	10
20	364	10	3	20	20	365	10	22	20
30	364	12	4	30	30	365	12	21	30
40	364	12	4	40	40	365	12	20	40
50	364	13	5	50	50	365	13	19	50
2 0	−15.364	+0.0014	−0.006	14 0	8 0	−15.365	−0.0014	−0.018	20 0
10	364	15	07	10	10	365	15	17	10
20	364	15	08	20	20	365	15	16	20
30	364	16	09	30	30	365	16	15	30
40	364	16	10	40	40	365	16	14	40
50	364	16	11	50	50	365	16	13	50
3 0	−15.364	+0.0016	−0.012	15 0	9 0	−15.365	−0.0016	−0.012	21 0
10	364	16	13	10	10	365	16	11	10
20	364	16	14	20	20	365	16	10	20
30	364	16	15	30	30	365	16	09	30
40	364	15	16	40	40	365	15	08	40
50	364	15	17	50	50	365	15	07	50
4 0	−15.364	+0.0014	−0.018	16 0	10 0	−15.365	−0.0014	−0.006	22 0
10	364	13	19	10	10	365	13	5	10
20	364	12	20	20	20	365	12	4	20
30	364	12	21	30	30	365	12	4	30
40	364	10	22	40	40	365	10	3	40
50	364	09	22	50	50	365	09	2	50
5 0	−15.364	+0.0008	−0.023	17 0	11 0	−15.365	−0.0008	−0.002	23 0
10	364	7	23	10	10	365	7	1	10
20	364	6	24	20	20	365	6	1	20
30	364	4	24	30	30	364	4	0	30
40	364	3	24	40	40	364	3	0	40
50	364	1	24	50	50	364	1	0	50
6 0	−15.364	+0.0000	−0.024	18 0	12 0	−15.364	−0.0000	−0.000	24 0

$$\alpha_{1925} = \alpha_{1930} + A + A_1 \operatorname{tg} \delta_{1930} + A_2 \operatorname{tg}^3 \delta_{1930}$$
$$\delta_{1925} = \delta_{1930} + D + D_1 \operatorname{tg} \delta_{1930}$$

A_1 und D sind aus der Tafel (S. 284*/285*) mit dem Argument α_{1930} zu entnehmen; für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten.

Finsternisse, Sternbedeckungen, Mösting A, Trabanten

Konstellationen, Hilfstafeln

1930

Im Jahre 1930 finden zwei Sonnenfinsternisse und zwei Mondfinsternisse statt.

I. Partielle Mondfinsternis 1930 April 13

Opposition in Rektaszension . . . April 13, $5^h\ 4^m\ 40\overset{s}{.}8$ Welt-Zeit

Rektaszension des Mondes	$13^h\ 23^m\ 23\overset{s}{.}85$
Stündliche Änderung	2 5.13
Rektaszension der Sonne	1 23 23.85
Stündliche Änderung	9.20
Deklination des Mondes	$-7°\ 43'\ 41''.4$
Stündliche Änderung	−15 48.3
Deklination der Sonne	+8 46 36.0
Stündliche Änderung	+ 0 54.6
Äquatorialhorizontalparallaxe des Mondes .	$58'\ 32''.6$
» der Sonne . .	8.8
Halbmesser des Mondes	$15'\ 56''.3$
» der Sonne	15 56.9

Eintritt des Mondes in den Halbschatten	April 13,	$3^h\ 42^m.9$	Welt-Zeit
Eintritt des Mondes in den Kernschatten .	»	5 20.7	»
Mitte der Finsternis	»	5 58.2	»
Austritt des Mondes aus dem Kernschatten	»	6 35.6	»
Austritt des Mondes aus dem Halbschatten	»	8 13.8	»

Der Mond steht zu den Zeiten der ersten und zweiten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

79° 52′ westliche Länge von Greenwich, 7° 48′ südliche Breite
97° 59′ » » » » 8° 8′ » »

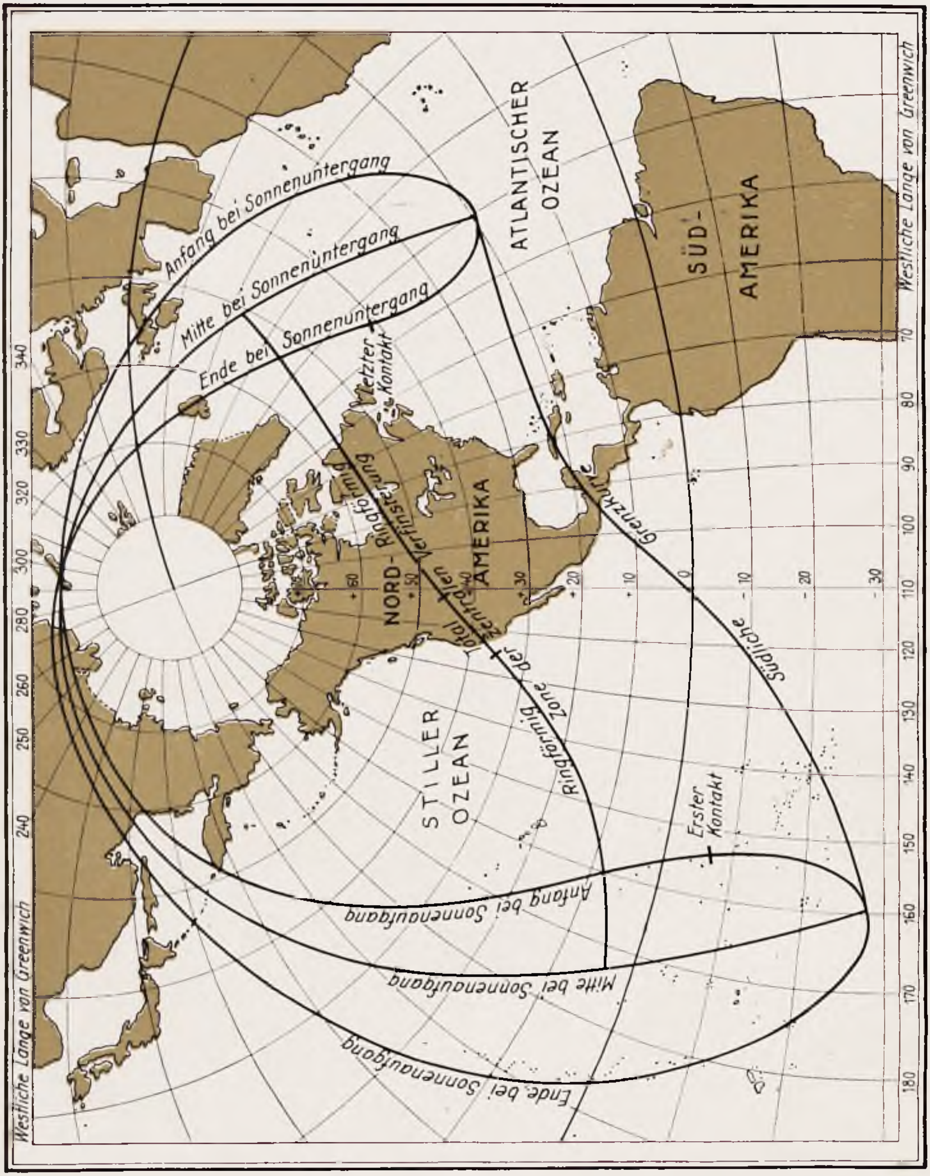
Positionswinkel des Eintritts . . . . = 187°
» » Austritts . . . . = 227°

Größe der Finsternis in Einheiten des Monddurchmessers = 0.111

Der Anfang der Finsternis ist sichtbar im südwestlichen Teil von Europa, im nordwestlichen Teil von Afrika, im Atlantischen Ozean, in Nord- und Südamerika und im Stillen Ozean mit Ausnahme des westlichen Teiles. Das Ende der Finsternis ist sichtbar im Atlantischen Ozean, in Nord- und Südamerika und im Stillen Ozean mit Ausnahme des westlichen Teiles.

Ringförmig-totale Sonnenfinsternis

1930 April 28



Zu Seite 289*

II. Ringförmig-totale Sonnenfinsternis 1930 April 28

Konjunktion in Rektaszension . .	April 28, 19h 26m 56s.5 Welt-Zeit
Rektaszension des Mondes	2h 21m 36s.39
Stündliche Änderung	2 6.61
Rektaszension der Sonne	2 21 36.39
Stündliche Änderung	9.48
Deklination des Mondes	+14° 36′ 10″.6
Stündliche Änderung	+13 45.3
Deklination der Sonne	+14 6 21.7
Stündliche Änderung	+ 0 47.3
Äquatorialhorizontalparallaxe des Mondes .	57′ 29″.7
» der Sonne . .	8.7
Halbmesser des Mondes	15′ 39″.2
» der Sonne	15 52.8

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
Anfang der Finsternis	Apr. 28, 16h 20m.0	153° 56′	− 6° 41
Anfang der zentralen Verfinsterung	» 17 25.7	172 57	+ 3 32
Übergang der zentralen in totale Verfinsterung	» 18 48.8	125 29	+35 28
Übergang der totalen in zentrale Verfinsterung	» 19 26.9	112 23	+45 40
Zentrale Verfinsterung im wahren Mittag	» 19 26.9	112 22	+45 41
Ende der zentralen Verfinsterung	» 20 40.1	22 44	+50 46
Ende der Finsternis	» 21 45.9	44 30	+40 56

Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenw.	Geogr. Breite	Dauer d. ringf. u. tot. Verf.	Welt-Zeit	Westl. Länge v. Greenw.	Geogr. Breite	Dauer d. ringf. u. tot. Ver.
17h 25m.7	172° 57′	+ 3° 32′	—	19h 0m	122° 5′.9	+38° 33′.9	1s.2
17 30	159 38.1	+ 8 5.1	41s.1	19 10	118 49.1	+41 16.0	1.5
17 40	150 18.0	+13 6.0	30.5	19 20	115 10.8	+43 54.1	0.9
17 50	144 43.0	+17 4.0	22.9	19 25	113 11.1	+45 11.4	0.3
18 0	140 29.7	+20 36.7	16.8	19 30	111 2.8	+46 27.3	0.5
18 20	133 50.1	+27 2.4	7.6	19 40	106 14.3	+48 54.5	2.8
18 30	130 54.1	+30 2.9	4.2	20 0	93 34.9	+53 19.6	10.1
18 40	128 2.1	+32 57.8	1.6	20 20	73 49.5	+56 18.8	21.4
18 45	126 35.7	+34 23.4	0.6	20 30	58 35.7	+56 25.4	29.6
18 50	125 8.1	+35 47.9	0.2	20 40.1	22 44	+50 46	—

Die Finsternis ist sichtbar im nordöstlichen Teil von Asien, im nördlichen Teil des Stillen Ozeans, in Nordamerika, im nördlichen Eismeer, in Grönland und im nördlichen Teil des Atlantischen Ozeans.

Elemente der ringförmig-totalen Sonnenfinsternis 1930 April 28

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
16h 10m	−1.62104	−0.22252	9.38560	9.98678	63° 7.7′	+0.55019	+0.00425
20	1.53878	0.18478	9.38566	9.98678	65 37.7	0.55018	0.00424
30	1.45651	0.14704	9.38572	9.98678	68 7.7	0.55017	0.00423
40	1.37424	0.10931	9.38579	9.98677	70 37.7	0.55016	0.00422
50	1.29196	0.07158	9.38585	9.98677	73 7.8	0.55015	0.00421
17 0	−1.20967	−0.03386	9.38592	9.98676	75 37.8	+0.55014	+0.00420
10	1.12738	+0.00386	9.38598	9.98676	78 7.8	0.55012	0.00419
20	1.04508	0.04157	9.38604	9.98676	80 37.9	0.55011	0.00417
30	0.96278	0.07928	9.38611	9.98675	83 7.9	0.55009	0.00416
40	0.88048	0.11699	9.38617	9.98675	85 37.9	0.55008	0.00414
50	0.79817	0.15469	9.38623	9.98674	88 7.9	0.55006	0.00413
18 0	−0.71585	+0.19238	9.38630	9.98674	90 38.0	+0.55005	+0.00411
10	0.63353	0.23007	9.38636	9.98674	93 8.0	0.55003	0.00409
20	0.55121	0.26776	9.38642	9.98673	95 38.0	0.55001	0.00408
30	0.46888	0.30544	9.38648	9.98673	98 8.1	0.54999	0.00406
40	0.38654	0.34312	9.38655	9.98672	100 38.1	0.54998	0.00404
50	0.30421	0.38079	9.38661	9.98672	103 8.1	0.54996	0.00402
19 0	−0.22187	+0.41845	9.38668	9.98672	105 38.1	+0.54994	+0.00400
10	0.13952	0.45611	9.38674	9.98671	108 8.2	0.54992	0.00398
20	−0.05717	0.49377	9.38680	9.98671	110 38.2	0.54989	0.00396
30	+0.02518	0.53142	9.38687	9.98670	113 8.2	0.54987	0.00394
40	0.10754	0.56906	9.38693	9.98670	115 38.2	0.54985	0.00391
50	0.18990	0.60670	9.38699	9.98670	118 8.3	0.54983	0.00389
20 0	+0.27226	+0.64433	9.38706	9.98669	120 38.3	+0.54980	+0.00387
10	0.35462	0.68196	9.38712	9.98669	123 8.3	0.54978	0.00384
20	0.43699	0.71958	9.38718	9.98668	125 38.4	0.54975	0.00382
30	0.51936	0.75719	9.38725	9.98668	128 8.4	0.54973	0.00379
40	0.60174	0.79480	9.38731	9.98668	130 38.4	0.54970	0.00377
50	0.68411	0.83240	9.38737	9.98667	133 8.4	0.54968	0.00374
21 0	+0.76649	+0.87000	9.38744	9.98667	135 38.5	+0.54965	+0.00371
10	0.84887	0.90759	9.38750	9.98666	138 8.5	0.54962	0.00368
20	0.93125	0.94517	9.38756	9.98666	140 38.5	0.54959	0.00366
30	1.01363	0.98275	9.38763	9.98666	143 8.6	0.54956	0.00363
40	1.09601	1.02032	9.38769	9.98665	145 38.6	0.54953	0.00360
50	+1.17839	+1.05789	9.38775	9.98665	148 8.6	+0.54950	+0.00357

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
16h 0m	+0.008226	+0.003775	7.66679	7.66462
17 0	0.008229	0.003772	7.66679	7.66462
18 0	0.008232	0.003769	7.66678	7.66461
19 0	0.008234	0.003766	7.66678	7.66461
20 0	0.008236	0.003763	7.66677	7.66460
21 0	0.008238	0.003759	7.66677	7.66460
22 0	+0.008238	+0.003755	7.66676	7.66459

III. Partielle Mondfinsternis 1930 Oktober 7

Opposition in Rektaszension . . Oktober 7, $18^h\ 4^m\ 39^s.7$ Welt-Zeit

Rektaszension des Mondes	$0^h\ 50^m\ 35^s.06$
Stündliche Änderung	1 49.38
Rektaszension der Sonne	12 50 35.06
Stündliche Änderung	9.13
Deklination des Mondes	$+4^\circ\ 23'\ 56''.0$
Stündliche Änderung	+14 31.4
Deklination der Sonne	−5 25 30.5
Stündliche Änderung	− 0 57.5
Äquatorialhorizontalparallaxe des Mondes . .	$55'\ 7''.6$
» der Sonne . . .	8.8
Halbmesser des Mondes	$15'\ 0''.6$
» der Sonne	16 0.5

Eintritt des Mondes in den Halbschatten	Okt. 7,	$16^h\ 41^m.3$	Welt-Zeit
Eintritt des Mondes in den Kernschatten	»	18 46.2	»
Mitte der Finsternis	»	19 6.5	»
Austritt des Mondes aus dem Kernschatten	»	19 27.0	»
Austritt des Mondes aus dem Halbschatten	»	21 31.9	»

Der Mond steht zu den Zeiten der ersten und zweiten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

284° 17′ westliche Länge von Greenwich, 4° 34′ nördliche Breite
294° 12′ » » » » , 4° 44′ » »

Positionswinkel des Eintritts . . . . = 342°
» » Austritts . . . . = 321

Größe der Finsternis in Einheiten des Monddurchmessers = 0.029

Anfang und Ende der Finsternis sind sichtbar in Asien, Australien, im Indischen Ozean, in Europa und Afrika.

IV. Totale Sonnenfinsternis 1930 Oktober 21—22

Konjunktion in Rektaszension Oktober 21, $22^h\ 3^m\ 44^s.1$ Welt-Zeit

Rektaszension des Mondes	$13^h\ 43^m\ 11^s.49$
Stündliche Änderung	2 10.97
Rektaszension der Sonne	13 43 11.49
Stündliche Änderung	9.46
Deklination des Mondes	$-11°\ 6'\ 40''.8$
Stündliche Änderung	—15 51.3
Deklination der Sonne	—10 41 26.8
Stündliche Änderung	— 0 53.5
Äquatorialhorizontalparallaxe des Mondes .	$59'\ 25''.1$
„ der Sonne . .	8.8
Halbmesser des Mondes	$16'\ 10''.6$
„ der Sonne	16 4.3

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
Anfang der Finsternis . . .	Oktober 21, $19^h\ 3^m.9$	$197°\ 26'$	$+12°\ 18'$
Anfang der zentralen Verfinsterung	» 21, 20 4.8	214 12	+ 4 17
Zentrale Verfinsterung im wahren Mittag	» 21, 22 3.7	154 45	—36 6
Ende der zentralen Verfinsterung	» 21, 23 21.8	72 6	—48 6
Ende der Finsternis . . .	» 22, 0 22.8	90 18	—40 15

Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenw.	Geogr. Breite	Dauer der Totalität	Welt-Zeit	Westl. Länge v. Greenw.	Geogr. Breite	Dauer der Totalität
$20^h\ 4^m.8$	$214°\ 12'$	$+\ 4°\ 17'$	—	$21^h\ 40^m$	$162°\ 2'.4$	$-29°\ 37'.2$	$1^m\ 55^s.2$
20 10	198 43.7	— 0 8.7	0 47.4	22 0	156 0.8	—35 5.8	1 53.4
20 20	189 32.6	— 4 38.2	1 5.0	22 20	148 31.5	—40 23.8	1 45.9
20 30	183 53.0	— 8 22.5	1 17.6	22 40	138 13.1	—45 24.0	1 32.0
20 40	179 37.6	—11 47.1	1 27.6	23 0	122 11.2	—49 39.1	1 10.8
21 0	172 59.9	—18 4.7	1 42.5	23 20	86 35.4	—50 18.0	0 33.2
21 20	167 27.5	—23 58.2	1 51.6	23 21.8	72 6	—48 6	—

Die Finsternis ist sichtbar im östlichen Australien, im südlichen Teil des Stillen Ozeans und in der Südspitze von Südamerika.

Elemente der totalen Sonnenfinsternis 1930 Oktober 21—22

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
19h 0m	−1.53974	+0.34863	9.26657$_n$	9.99246	108° 48.8	+0.54369	−0.00221
10	1.45597	0.30645	9.26666$_n$	9.99246	111 18.8	0.54372	0.00218
20	1.37220	0.26428	9.26676$_n$	9.99245	113 48.9	0.54375	0.00215
30	1.28841	0.22210	9.26685$_n$	9.99245	116 18.9	0.54378	0.00213
40	1.20463	0.17993	9.26695$_n$	9.99245	118 48.9	0.54381	0.00210
50	1.12084	0.13776	9.26705$_n$	9.99244	121 19.0	0.54383	0.00208
20 0	−1.03705	+0.09560	9.26714$_n$	9.99244	123 49.0	+0.54386	−0.00205
10	0.95325	0.05344	9.26724$_n$	9.99244	126 19.0	0.54388	0.00203
20	0.86945	+0.01129	9.26733$_n$	9.99243	128 49.1	0.54391	0.00200
30	0.78565	−0.03086	9.26743$_n$	9.99243	131 19.1	0.54393	0.00198
40	0.70184	0.07301	9.26752$_n$	9.99243	133 49.1	0.54395	0.00196
50	0.61803	0.11515	9.26762$_n$	9.99242	136 19.1	0.54397	0.00193
21 0	−0.53422	−0.15729	9.26771$_n$	9.99242	138 49.2	+0.54400	−0.00191
10	0.45041	0.19942	9.26781$_n$	9.99242	141 19.2	0.54402	0.00189
20	0.36659	0.24155	9.26790$_n$	9.99241	143 49.2	0.54404	0.00187
30	0.28277	0.28367	9.26800$_n$	9.99241	146 19.3	0.54406	0.00185
40	0.19895	0.32579	9.26810$_n$	9.99241	148 49.3	0.54407	0.00183
50	0.11513	0.36790	9.26819$_n$	9.99240	151 19.3	0.54409	0.00182
22 0	−0.03131	−0.41001	9.26829$_n$	9.99240	153 49.3	+0.54411	−0.00180
10	+0.05251	0.45212	9.26838$_n$	9.99240	156 19.4	0.54413	0.00178
20	0.13633	0.49422	9.26848$_n$	9.99239	158 49.4	0.54414	0.00177
30	0.22016	0.53631	9.26857$_n$	9.99239	161 19.4	0.54416	0.00175
40	0.30398	0.57840	9.26867$_n$	9.99239	163 49.5	0.54417	0.00174
50	0.38781	0.62048	9.26876$_n$	9.99238	166 19.5	0.54418	0.00172
23 0	+0.47163	−0.66256	9.26886$_n$	9.99238	168 49.5	+0.54420	−0.00171
10	0.55546	0.70463	9.26895$_n$	9.99238	171 19.6	0.54421	0.00170
20	0.63929	0.74669	9.26905$_n$	9.99237	173 49.6	0.54422	0.00169
30	0.72311	0.78875	9.26914$_n$	9.99237	176 19.6	0.54423	0.00167
40	0.80694	0.83082	9.26924$_n$	9.99237	178 49.6	0.54424	0.00166
50	0.89076	0.87287	9.26933$_n$	9.99236	181 19.7	0.54425	0.00165
0 0	+0.97458	−0.91490	9.26943$_n$	9.99236	183 49.7	+0.54426	−0.00164
10	1.05840	0.95694	9.26952$_n$	9.99236	186 19.7	0.54427	0.00164
20	1.14222	0.99897	9.26962$_n$	9.99235	188 49.8	0.54428	0.00163
30	+1.22604	−1.04099	9.26971$_n$	9.99235	191 19.8	+0.54429	−0.00162

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
19h 0m	+0.008377	−0.004218	7.67193	7.66976
20 0	0.008379	0.004216	7.67194	7.66977
21 0	0.008381	0.004213	7.67194	7.66977
22 0	0.008382	0.004210	7.67195	7.66978
23 0	0.008383	0.004207	7.67195	7.66978
0 0	0.008382	0.004204	7.67196	7.66979
1 0	+0.008381	−0.004201	7.67196	7.66980

Sternbedeckungen 1930

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern: Name	Gr.	δ app.	Konjunktion in Rektaszension: Welt-Zeit	Stundenw. H	Y	x′	y′	Grenzen der Sichtbarkeit in geogr. Br.	Alter des Mondes
Januar									
	m	° ′	d h m	h m				° °	d
ψ² Aquarii	4.6	− 9 34.1	5 14 40.0	−1 36.4	+0.2384	0.4963	+0.2422	+55 −31	5.6
ψ³ Aquarii	5.2	− 9 59.8	5 15 14.4	−1 3.0	+0.8470	0.4962	+0.2426	+81 + 1	5.6
o Piscium	4.5	+ 8 48.4	8 21 26.3	+2 55.4	+0.5919	0.5162	+0.2519	+81 −11	8.9
o Arietis	5.8	+15 1.0	10 1 46.1	+6 20.9	+0.9431	0.5408	+0.2268	+90 +13	10.1
72 Tauri	5.4	+22 50.5	11 20 54.1	−0 6.5	+1.1889	0.5880	+0.1448	+90 +43	11.9
125 Tauri	5.1	+25 51.7	12 23 49.2	+1 40.7	+1.0302	0.6120	+0.0642	+90 +37	13.0
47 Geminorum	5.6	+26 58.5	14 8 5.2	+8 30.3	+0.1852	0.6204	−0.0495	+55 − 9	14.3
c Geminorum	5.5	+25 57.2	14 19 37.6	−4 28.2	+0.3772	0.6168	−0.0896	+68 − 2	14.8
λ Cancri	5.9	+24 14.7	15 8 43.3	+8 3.2	+0.5886	0.6089	−0.1319	+86 + 5	15.4
308 B. Leonis	5.8	+ 8 26.6	18 7 6.3	+3 43.8	+1.2744	0.5434	−0.2639	+90 +34	18.3
ι Librae	4.3	−19 31.7	23 3 59.8	−3 1.3	+0.9360	0.5233	−0.1974	+71 + 8	23.2
25 Librae	6.0	−19 23.1	23 4 32.1	−2 30.1	+0.6757	0.5235	−0.1965	+71 − 7	23.2
57 B. Scorpii	5.7	−23 25.0	24 5 47.4	−2 3.1	+0.6443	0.5328	−0.1516	+65 − 8	24.2
27 G. Scorpii	5.8	−23 30.0	24 7 1.5	−0 51.4	+0.5496	0.5332	−0.1492	+60 −14	24.3
X Sagittarii	4.4	−27 48.4	26 4 17.9	−5 6.3	+0.7510	0.5467	−0.0480	+63 0	26.2
10 G. Sagittarii	5.7	−28 3.4	26 8 24.2	−1 8.4	+0.8512	0.5472	−0.0380	+62 + 6	26.3
Februar									
	m	° ′	d h m	h m				° °	d
ψ¹ Aquarii	4.5	− 9 28.3	1 19 34.0	+5 6.9	+0.1117	0.4973	+0.2436	+48 −38	3.0
53 Arietis	6.0	+17 36.7	6 19 59.4	+2 0.8	+0.8361	0.5419	+0.2082	+90 + 9	8.0
32 Tauri	5.8	+22 16.8	7 17 32.2	−1 12.0	+0.0974	0.5637	+0.1692	+49 −26	8.9
A Tauri	4.5	+21 53.6	7 20 48.6	+1 57.0	+1.0338	0.5671	+0.1620	+90 +27	9.1
k Tauri	5.6	+24 56.8	8 18 10.2	−1 31.2	+0.8265	0.5882	+0.1083	+90 +20	10.0
47 Geminorum	5.6	+26 58.5	10 19 3.4	−2 43.2	+0.2924	0.6126	−0.0515	+62 − 4	12.0
c Geminorum	5.5	+25 57.2	11 6 49.7	+8 32.2	+0.4539	0.6107	−0.0915	+74 0	12.5
λ Cancri	5.9	+24 14.7	11 20 6.6	−2 45.2	+0.6281	0.6050	−0.1340	+90 + 7	13.0
308 B. Leonis	5.8	+ 8 26.5	14 18 2.4	−7 31.8	+1.0884	0.5502	−0.2698	+90 +18	15.9
234 B. Sagittarii	5.9	−28 0.3	24 6 16.5	−2 50.0	+1.0502	0.5425	+0.0606	+62 +22	25.5
März									
	m	° ′	d h m	h m				° °	d
133 B. Tauri	5.9	+22 2.0	6 20 48.0	+3 57.6	+0.1076	0.5552	+0.1736	+50 −25	6.3
32 Tauri	5.8	+22 16.8	6 23 47.3	+6 50.5	+0.3620	0.5578	+0.1674	+66 −12	6.4
k Tauri	5.6	+24 56.8	8 1 1.8	+7 8.0	+1.0850	0.5792	+0.1061	+90 +38	7.4
112 B. Aurigae	5.7	+26 53.1	8 16 13.4	−2 16.8	+0.3809	0.5898	+0.0621	+68 0	8.1
47 Geminorum	5.6	+26 58.5	10 3 34.1	+7 35.4	+0.4810	0.6004	−0.0520	+76 + 6	9.5
308 B. Leonis	5.8	+ 8 26.5	14 4 58.5	+5 12.4	+1.0645	0.5483	−0.2714	+90 +17	13.6
h Virginis	5.4	− 9 48.5	16 21 54.8	−3 59.5	+1.4007	0.5302	−0.2667	+75 +49	16.3
σ Scorpii	3.0	−25 25.7	20 3 58.1	−0 30.9	+1.2692	0.5449	−0.1391	+65 +45	19.6
38 B. Sagittarii	4.7	−28 28.1	22 3 16.9	−2 51.2	+0.6878	0.5492	−0.0233	+59 − 4	21.5
April									
	m	° ′	d h m	h m				° °	d
112 B. Aurigae	5.7	+26 53.1	4 21 43.5	+5 0.6	+0.5291	0.5875	+0.0619	+81 + 7	5.7
c Geminorum	5.5	+25 57.2	6 22 5.6	+3 23.5	+0.7654	0.5903	−0.0907	+90 +17	7.7
η Virginis	4.0	− 0 16.8	11 20 54.2	−2 4.8	+1.3546	0.5304	−0.2820	+85 +39	12.7
32 B. Scorpii	5.3	−23 46.4	16 1 9.1	−1 6.9	+1.2710	0.5475	−0.1680	+67 +42	16.8

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern			Konjunktion in Rektaszension					Grenzen der Sichtbarkeit in geogr. Br.	Alter des Mondes
Name	Gr.	δ app.	Welt Zeit	Stundenw. H	Y	x'	y'		
Mai									
	m	° ′	d h m	h m				° °	d
υ¹ Cancri	5.7	+24 19.2	4 21 56.0	+4 16.8	+0.2528	0.5805	−0.1437	+59 −15	6.1
308 B. Leonis	5.8	+ 8 26.6	7 20 30.2	+0 19.5	+1.1458	0.5328	−0.2651	+90 +23	9.1
σ Scorpii	3.0	−25 25.8	13 22 2.0	−2 51.3	+1.1955	0.5526	−0.1411	+65 +34	15.1
43 Ophiuchi	5.4	−28 4.7	15 1 0.2	−0 50.6	+1.1341	0.5582	−0.0741	+62 +29	16.2
62 B. Sagittarii	6.0	−28 40.7	16 0 16.0	−2 25.1	+0.7808	0.5571	−0.0126	+62 + 2	17.2
ψ¹ Aquarii	4.5	− 9 28.1	22 1 18.8	−5 57.6	+0.1913	0.4939	+0.2465	+53 −34	23.3
ψ² Aquarii	4.6	− 9 33.9	22 2 25.7	−4 52.6	+0.5711	0.4938	+0.2473	+77 −14	23.3
ψ³ Aquarii	5.2	− 9 59.6	22 3 0.3	−4 18.9	+1.1826	0.4938	+0.2477	+81 +23	23.3
27 Piscium	5.1	− 3 56.6	23 0 47.6	−7 8.0	+0.1341	0.4939	+0.2598	+52 −37	24.2
Mars	1.3	+ 8 3.7	25 1 57.5	−7 22.2	+0.2154	0.4828	+0.2471	+56 −32	26.3
47 Geminorum	5.6	+26 58.5	30 21 54.2	+7 17.9	+0.5494	0.6048	−0.0537	+83 + 9	2.7
Juni									
	m	° ′	d h m	h m				° °	d
h Virginis	5.4	− 9 48.5	6 22 19.6	+1 48.7	+1.3112	0.5194	−0.2613	+84 +35	9.7
ι Librae	4.3	−19 31.9	8 22 10.2	+0 8.1	+0.2894	0.5364	−0.2019	+51 −28	11.7
210 B. Scorpii	5.8	−28 45.3	11 23 51.5	−0 44.5	+1.1199	0.5586	−0.0328	+62 +29	14.8
33 Capricorni	5.3	−21 8.9	15 21 55.6	−5 50.8	+0.4502	0.5163	+0.1791	+57 −20	18.7
35 Capricorni	6.0	−21 29.9	15 23 28.8	−4 20.4	+1.1185	0.5153	+0.1815	+69 +23	18.8
37 Capricorni	5.7	−20 23.8	16 3 20.7	−0 35.7	+0.6086	0.5131	+0.1874	+67 −11	18.9
e Piscium	5.6	+ 5 16.9	20 23 17.2	−7 53.9	+0.2894	0.5007	+0.2598	+60 −28	23.8
l Leonis	5.2	+10 55.0	30 21 1.2	+4 48.4	+1.2691	0.5460	−0.2584	+90 +35	4.3
Juli									
	m	° ′	d h m	h m				° °	d
32 B. Scorpii	5.3	−23 46.5	6 23 12.5	+2 19.5	+1.1769	0.5414	−0.1628	+67 +30	10.4
234 B. Sagittarii	5.9	−28 0.2	10 20 4.1	−4 4.0	+0.9790	0.5486	+0.0660	+62 +16	14.2
August									
	m	° ′	d h m	h m				° °	d
169 B. Librae	6.0	−22 54.9	2 21 31.1	+2 40.4	+1.2576	0.5384	−0.1763	+68 +38	8.0
43 Ophiuchi	5.4	−28 4.8	4 20 38.3	+0 10.0	+0.9758	0.5522	−0.0682	+62 +14	10.0
62 B. Sagittarii	6.0	−28 40.7	5 20 16.4	−1 2.0	+0.7417	0.5532	−0.0073	+62 − 2	10.9
κ Capricorni	4.8	−19 11.0	9 20 21.8	−4 6.7	+0.3094	0.5115	+0.1974	+51 −28	15.0
ψ¹ Aquarii	4.5	− 9 27.9	11 22 40.8	−3 12.9	+0.8832	0.4903	+0.2477	+81 + 2	17.0
ψ² Aquarii	4.6	− 9 33.6	11 23 49.2	−2 6.3	+1.2715	0.4900	+0.2484	+81 +30	17.1
27 Piscium	5.1	− 3 56.4	12 22 48.1	−3 44.4	+0.8898	0.4867	+0.2580	+87 + 2	18.1
29 Piscium	5.1	− 3 24.8	13 0 34.8	−2 0.6	+0.7679	0.4867	+0.2584	+87 − 5	18.1
45 Arietis	6.0	+18 3.2	16 20 59.5	−8 14.4	+0.2872	0.5289	+0.2106	+61 −22	22.0
ρ Arietis	5.6	+17 44.9	16 21 16.9	−7 57.5	+0.6706	0.5291	+0.2102	+90 − 2	22.0
δ Arietis	4.5	+19 28.0	17 4 23.4	−1 5.0	+0.3078	0.5357	+0.1995	+63 −18	22.3
133 B. Tauri	5.9	+22 2.1	17 21 33.0	−8 30.7	+0.7722	0.5526	+0.1685	+90 + 9	23.0
32 Tauri	5.8	+22 16.8	18 0 33.1	−5 37.1	+1.0112	0.5556	+0.1623	+90 +25	23.1
33 Tauri	6.0	+22 58.6	18 0 37.9	−5 32.4	+0.2984	0.5557	+0.1621	+63 −14	23.1
136 Tauri	4.6	+27 36.0	19 22 54.6	−9 4.0	+0.3236	0.5965	+0.0364	+65 − 1	25.1
47 Geminorum	5.6	+26 58.5	21 3 37.3	−5 34.8	+0.6083	0.6058	−0.0603	+90 +11	26.3
h Virginis	5.4	− 9 48.4	27 19 0.4	+3 52.2	+0.5331	0.5329	−0.2684	+73 −17	3.6
85 B. Scorpii	6.0	−25 18.3	30 20 54.5	+3 17.0	+0.8920	0.5483	−0.1414	+65 + 7	6.7

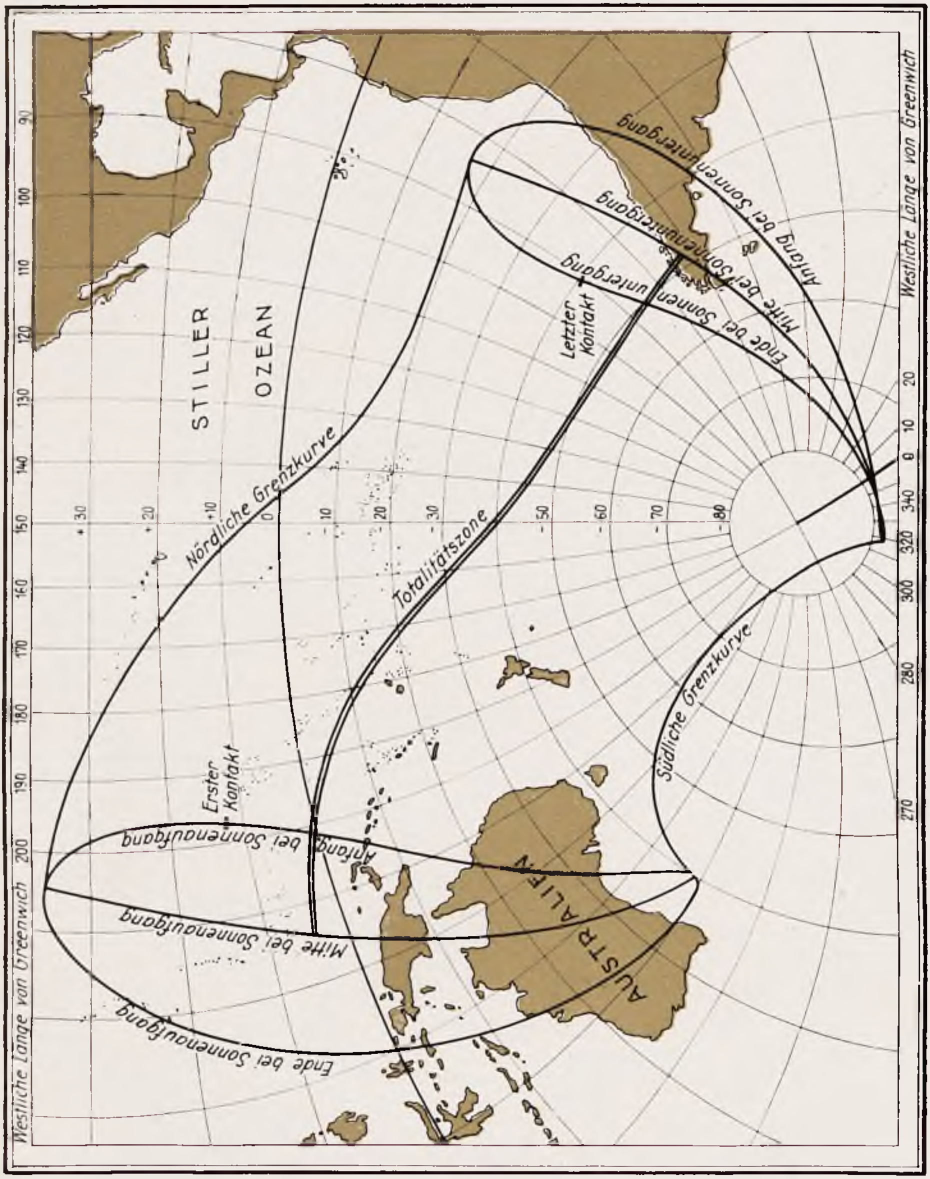
Sternbedeckungen 1930

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern: Name	Gr.	δ app.	Konjunktion in Rektaszension: Welt-Zeit	Stundenw. H	Y	x'	y'	Grenzen der Sichtbarkeit in geogr. Br.	Alter des Mondes
September									
	m	° '	d h m	h m				° °	d
210 B. Scorpii	5.8	−28 45.3	1 18 5.5	−1 8.1	+0.7568	0.5534	−0.0274	+62 − 1	8.6
35 Capricorni	6.0	−21 29.9	5 18 31.1	−3 55.7	+1.3102	0.5146	+0.1873	+68 +44	12.6
37 Capricorni	5.7	−20 23.7	5 22 24.2	−0 9.6	+0.8230	0.5126	+0.1932	+70 0	12.7
ε Capricorni	4.7	−19 46.7	5 23 32.8	+0 57.0	+0.3596	0.5120	+0.1949	+54 −26	12.8
κ Capricorni	4.8	−19 11.0	6 2 24.9	+3 43.9	+0.2637	0.5105	+0.1990	+48 −31	12.9
ψ¹ Aquarii	4.5	− 9 27.9	8 4 41.1	+4 34.9	+0.9389	0.4912	+0.2502	+81 + 5	15.0
27 Piscium	5.1	− 3 56.3	9 4 43.3	+3 58.3	+0.9926	0.4883	+0.2607	+87 + 8	16.0
e Piscium	5.6	+ 5 17.1	10 19 36.6	−6 11.8	+1.0477	0.4944	+0.2587	+90 +12	17.6
54 Ceti	6.0	+10 42.2	11 18 23.1	−8 3.9	+0.9198	0.5045	+0.2459	+90 + 7	18.6
26 B. Arietis	6.0	+11 57.7	11 22 50.6	−3 44.1	+0.6462	0.5070	+0.2423	+87 − 8	18.8
π Arietis	5.2	+17 10.7	12 23 50.0	−3 30.4	+0.7679	0.5242	+0.2147	+90 + 3	19.8
45 Arietis	6.0	+18 3.2	13 2 58.0	−0 28.4	+0.4979	0.5267	+0.2103	+76 −11	19.9
ρ Arietis	5.6	+17 45.0	13 3 15.6	−0 11.4	+0.8842	0.5269	+0.2098	+90 +10	19.9
133 B. Tauri	5.9	+22 2.2	14 3 52.0	−0 24.2	+0.9897	0.5478	+0.1672	+90 +23	21.0
112 B. Aurigae	5.7	+26 53.1	16 0 10.8	−5 45.1	+0.9694	0.5831	+0.0543	+90 +33	22.9
49 Aurigae	5.1	+28 4.8	16 22 26.6	−8 23.6	+0.1743	0.5928	−0.0158	+55 − 7	23.7
c Geminorum	5.5	+25 57.2	18 0 28.7	−7 26.3	+0.8069	0.5934	−0.0998	+90 +19	24.9
Oktober									
	m	° '	d h m	h m				° °	d
33 Capricorni	5.3	−21 8.9	2 23 34.2	+2 57.8	+0.5244	0.5137	+0.1852	+62 −17	10.5
74 Aquarii	5.8	−11 59.1	4 22 55.0	+0 56.8	+0.6227	0.4937	+0.2421	+76 −13	12.5
e Piscium	5.6	+ 5 17.2	8 1 50.7	+1 49.8	+1.0718	0.4973	+0.2612	+90 +14	15.6
54 Ceti	6.0	+10 42.2	9 0 22.9	−0 16.7	+0.9645	0.5080	+0.2485	+90 +10	16.5
26 B. Arietis	6.0	+11 57.7	9 4 47.5	+4 0.1	+0.6954	0.5106	+0.2448	+90 − 6	16.7
π Arietis	5.2	+17 10.8	10 5 31.8	+3 58.8	+0.8334	0.5276	+0.2167	+90 + 7	17.7
63 Arietis	5.2	+20 29.9	10 21 11.3	−4 52.5	+0.5040	0.5400	+0.1917	+77 − 8	18.4
65 Arietis	6.0	+20 33.7	10 21 57.3	−4 8.0	+0.5832	0.5406	+0.1903	+84 − 3	18.4
49 Aurigae	5.1	+28 4.8	14 4 26.1	−0 36.7	+0.2558	0.5871	−0.0158	+61 − 3	21.7
υ Geminorum	4.3	+27 3.2	15 3 53.8	−2 6.1	+0.0700	0.5856	−0.0890	+49 −19	22.7
λ Cancri	5.9	+24 14.6	15 21 25.0	−9 16.7	+0.9100	0.5794	−0.1400	+90 +21	23.4
υ¹ Cancri	5.7	+24 19.1	16 1 47.2	−5 4.8	+0.1960	0.5774	−0.1519	+56 −18	23.6
σ Scorpii	3.0	−25 25.8	24 17 28.5	+3 21.2	+0.4427	0.5636	−0.1388	+51 −20	2.8
November									
	m	° '	d h m	h m				° °	d
ψ¹ Aquarii	4.5	− 9 27.9	1 18 58.3	−1 32.7	+0.8922	0.4891	+0.2504	+81 + 2	10.9
ψ³ Aquarii	4.6	− 9 33.6	1 20 6.5	−0 26.3	+1.2824	0.4890	+0.2511	+81 +31	10.9
27 Piscium	5.1	− 3 56.3	2 18 57.8	−2 11.9	+0.9730	0.4882	+0.2617	+87 + 7	11.9
29 Piscium	5.1	− 3 24.7	2 20 43.6	−0 29.1	+0.8569	0.4883	+0.2623	+87 0	12.0
45 Arietis	6.0	+18 3.3	6 15 34.7	−8 16.7	+0.5434	0.5352	+0.2139	+80 − 9	15.7
ρ Arietis	5.6	+17 45.1	6 15 51.9	−8 0.1	+0.9262	0.5354	+0.2135	+90 +13	15.8
δ Arietis	4.5	+19 28.1	6 22 52.4	−1 13.6	+0.5668	0.5414	+0.2022	+82 − 5	16.1
63 Arietis	5.2	+20 29.9	7 3 54.8	+3 38.5	+0.4778	0.5458	+0.1934	+75 −10	16.3
65 Arietis	6.0	+20 33.7	7 4 40.0	+4 22.2	+0.5563	0.5464	+0.1920	+82 − 4	16.3
133 B. Tauri	5.9	+22 2.3	7 15 52.7	−8 48.7	+1.0337	0.5561	+0.1697	+90 +26	16.8

Totale Sonnenfinsternis

1930 Oktober 21–22



Zu Seite 292

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern: Name	Gr.	δ app.	Konjunktion in Rektaszension: Welt-Zeit	Stundenw. H	Y	x'	y'	Grenzen der Sichtbarkeit in geogr. Br.	Alter des Mondes
November									
	m	° '	d h m	h m				° °	d
32 Tauri	5.8	+22 17.0	7 18 52.1	−5 55.7	+1.2734	0.5586	+0.1632	+81 +49	16.9
33 Tauri	6.0	+22 58.7	7 18 56.9	−5 51.1	+0.5576	0.5587	+0.1630	+82 − 1	16.9
36 Tauri	5.6	+23 55.2	7 22 3.1	−2 51.6	+0.0683	0.5613	+0.1560	+49 −26	17.0
406 B. Tauri	5.6	+27 57.1	9 16 55.2	−9 38.8	+0.1552	0.5878	+0.0377	+54 −10	18.8
136 Tauri	4.6	+27 36.0	9 17 50.3	−8 46.0	+0.5508	0.5881	+0.0348	+84 +11	18.8
47 Geminorum	5.6	+26 58.4	10 23 48.6	−4 0.9	+0.8054	0.5890	−0.0603	+90 +22	20.1
λ Cancri	5.9	+24 14.6	12 2 53.1	−2 1.2	+0.8519	0.5776	−0.1398	+90 +17	21.2
308 B. Leonis	5.8	+ 8 26.5	15 6 20.1	−1 15.9	+0.4025	0.5333	−0.2719	+68 −22	24.4
86 Virginis	5.6	−12 4.7	18 6 36.7	−3 19.1	+1.0906	0.5350	−0.2637	+78 +16	27.4
33 Capricorni	5.3	−21 9.0	26 15 25.9	−1 35.0	+0.6599	0.5146	+0.1860	+68 − 9	6.2
35 Capricorni	6.0	−21 30.0	26 16 59.1	−0 4.6	+1.3375	0.5136	+0.1883	+66 +50	6.3
37 Capricorni	5.7	−20 23.8	26 20 51.3	+3 40.5	+0.8599	0.5110	+0.1940	+70 + 2	6.5
74 Aquarii	5.8	−11 59.2	28 14 52.5	−3 30.2	+0.7771	0.4899	+0.2401	+79 − 4	8.2
Dezember									
	m	° '	d h m	h m				° °	d
e Piscium	5.6	+ 5 17.2	1 18 19.6	−2 5.6	+1.1718	0.4961	+0.2593	+90 +21	11.4
54 Ceti	6.0	+10 42.2	2 16 44.3	−4 19.8	+1.0280	0.5098	+0.2478	+90 +14	12.3
26 B. Arietis	6.0	+11 57.8	2 21 5.9	−0 5.9	+0.7529	0.5131	+0.2444	+90 − 1	12.5
π Arietis	5.2	+17 10.8	3 21 23.9	−0 33.6	+0.8428	0.5340	+0.2175	+90 + 8	13.5
45 Arietis	6.0	+18 3.3	4 0 25.8	+2 22.3	+0.5720	0.5369	+0.2131	+82 − 7	13.6
ρ Arietis	5.6	+17 45.1	4 0 42.8	+2 38.7	+0.9527	0.5372	+0.2127	+90 +14	13.6
133 B. Tauri	5.9	+22 2.3	5 0 27.2	+1 33.7	+1.0189	0.5604	+0.1694	+90 +25	14.6
32 Tauri	5.8	+22 17.0	5 3 23.9	+4 24.0	+1.2518	0.5632	+0.1629	+84 +47	14.7
33 Tauri	6.0	+22 58.8	5 3 28.6	+4 28.5	+0.5413	0.5633	+0.1627	+81 − 2	14.7
36 Tauri	5.6	+23 55.2	5 6 31.8	+7 25.0	+0.0509	0.5663	+0.1558	+48 −26	14.9
112 B. Aurigae	5.7	+26 53.1	6 19 16.3	−5 17.1	+0.9260	0.5940	+0.0534	+90 +31	16.4
406 B. Tauri	5.6	+27 57.1	7 0 29.6	−0 16.8	+0.0723	0.5962	+0.0367	+49 −14	16.6
136 Tauri	4.6	+27 36.0	7 1 23.2	+0 34.6	+0.4620	0.5966	+0.0338	+76 + 6	16.7
49 Aurigae	5.1	+28 4.8	7 17 3.8	−8 24.1	+0.0981	0.5996	−0.0179	+51 −11	17.3
47 Geminorum	5.6	+26 58.4	8 6 36.1	+4 34.2	+0.6721	0.5979	−0.0625	+90 +15	17.9
c Geminorum	5.5	+25 57.1	8 18 58.5	−7 34.2	+0.6857	0.5932	−0.1016	+90 +12	18.4
l Leonis	5.2	+10 54.7	12 0 17.6	−5 8.1	+0.7669	0.5378	−0.2611	+90 − 2	21.6
h Virginis	5.4	− 9 48.5	15 7 6.9	−0 49.4	+0.2409	0.5262	−0.2645	+55 −33	24.9
29 Piscium	5.1	− 3 24.8	27 13 54.1	−3 42.9	+1.3090	0.4821	+0.2581	+83 +33	7.5
δ Arietis	4.5	+19 28.2	31 17 37.3	−2 52.7	+0.7514	0.5401	+0.1982	+90 + 5	11.6
τ Arietis	5.1	+20 54.1	31 21 57.5	+1 18.7	+0.0881	0.5446	+0.1908	+50 −28	11.8
63 Arietis	5.2	+20 29.9	31 22 39.0	+1 58.8	+0.6424	0.5454	+0.1896	+90 0	11.8
65 Arietis	6.0	+20 33.7	31 23 24.1	+2 42.2	+0.7175	0.5461	+0.1883	+90 + 4	11.9

Mond 1930

0ʰ Welt-Zeit	Mondbewegung			Lage des Mondäquators gegen den Erdäquator							
	☊	$L_☾$	$M_☾$	i	diff.	Δ	diff.	☊′	diff.	Δ − ☋	diff.
1930	°	°	°	°		°		°		°	
Jan. −2	39.0997	251.2747	136.57	22.274	9	221.460	556	357.439	29	2.360	26
+8	38.5702	23.0387	267.22	22.265	10	220.904	555	357.468	28	2.334	26
18	38.0406	154.8027	37.87	22.255	9	220.349	556	357.496	28	2.308	26
28	37.5111	286.5667	168.52	22.246	9	219.793	557	357.524	29	2.282	27
Febr. 7	36.9816	58.3306	299.17	22.237	9	219.236	556	357.553	29	2.255	27
17	36.4520	190.0946	69.82	22.228	9	218.680	556	357.582	30	2.228	27
27	35.9225	321.8586	200.47	22.219	8	218.124	557	357.612	30	2.201	27
März 9	35.3930	93.6225	331.12	22.211	9	217.567	558	357.642	30	2.174	28
19	34.8634	225.3865	101.77	22.202	8	217.009	557	357.672	30	2.146	28
29	34.3339	357.1505	232.42	22.194	9	216.452	558	357.702	30	2.118	28
April 8	33.8043	128.9144	3.07	22.185	8	215.894	557	357.732	31	2.090	28
18	33.2748	260.6784	133.72	22.177	8	215.337	558	357.763	31	2.062	28
28	32.7452	32.4424	264.37	22.169	8	214.779	558	357.794	31	2.034	28
Mai 8	32.2157	164.2063	35.02	22.161	8	214.221	558	357.825	31	2.006	29
18	31.6862	295.9703	165.67	22.153	8	213.663	559	357.856	32	1.977	29
28	31.1566	67.7343	296.32	22.145	8	213.104	559	357.888	31	1.948	30
Juni 7	30.6271	199.4982	66.97	22.137	7	212.545	559	357.919	32	1.918	29
17	30.0976	331.2622	197.62	22.130	8	211.986	559	357.951	32	1.889	30
27	29.5680	103.0262	328.27	22.122	7	211.427	559	357.983	33	1.859	29
Juli 7	29.0385	234.7901	98.92	22.115	7	210.868	559	358.016	32	1.830	30
17	28.5089	6.5541	229.57	22.108	8	210.309	560	358.048	33	1.800	30
27	27.9794	138.3181	0.22	22.100	7	209.749	560	358.081	33	1.770	31
Aug. 6	27.4499	270.0820	130.87	22.093	7	209.189	560	358.114	33	1.739	30
16	26.9203	41.8460	261.52	22.086	6	208.629	560	358.147	33	1.709	31
26	26.3908	173.6100	32.17	22.080	7	208.069	560	358.180	34	1.678	31
Sept. 5	25.8612	305.3739	162.82	22.073	6	207.509	561	358.214	33	1.647	31
15	25.3317	77.1379	293.47	22.067	7	206.948	561	358.247	34	1.616	31
25	24.8022	208.9019	64.12	22.060	6	206.387	561	358.281	34	1.585	31
Okt. 5	24.2726	340.6658	194.77	22.054	6	205.826	561	358.315	34	1.554	32
15	23.7431	112.4298	325.42	22.048	6	205.265	561	358.349	35	1.522	31
25	23.2135	244.1938	96.07	22.042	6	204.704	561	358.384	34	1.491	32
Nov. 4	22.6840	15.9577	226.72	22.036	6	204.143	561	358.418	35	1.459	32
14	22.1545	147.7217	357.37	22.030	5	203.582	562	358.453	35	1.427	32
24	21.6249	279.4857	128.02	22.025	6	203.020	562	358.488	35	1.395	32
Dez. 4	21.0954	51.2496	258.67	22.019	5	202.458	562	358.523	35	1.363	33
14	20.5658	183.0136	29.32	22.014	5	201.896	562	358.558	35	1.330	32
24	20.0363	314.7776	159.97	22.009	6	201.334	562	358.593	35	1.298	33
34	19.5068	86.5415	290.62	22.003		200.772		358.628		1.265	

Tag	$\alpha_☾ - \alpha_k$	Δ1	Δ2	$\delta_☾ - \delta_k$	Δ1	Δ2	log sin p_k	Δ1	Δ2
				0h Welt-Zeit					
1930	s	s	s	″	″	″			
Jan. 8	+ 0.10	+1.05		+102.5	−18.9		8.21662	+670	
9	+ 1.15	+0.69	−0.36	+ 83.6	−24.7	− 5.8	8.22332	+722	+ 52
10	+ 1.84	+0.06	−0.63	+ 58.9	−29.3	− 4.6	8.23054	+727	+ 5
11	+ 1.90	−0.87	−0.93	+ 29.6	−30.3	− 1.0	8.23781	+672	− 55
12	+ 1.03	−2.01	−1.14	− 0.7	−25.3	+ 5.0	8.24453	+547	−125
13	− 0.98	−2.94	−0.93	− 26.0	−13.6	+11.7	8.25000	+360	−187
14	− 3.92	−3.23	−0.29	− 39.6	+ 2.4	+16.0	8.25360	+128	−232
15	− 7.15	−2.75	+0.48	− 37.2	+16.9	+14.5	8.25488	−120	−248
16	− 9.90	−1.88	+0.87	− 20.3	+25.7	+ 8.8	8.25368	−352	−232
17	−11.78	−1.03	+0.85	+ 5.4	+27.9	+ 2.2	8.25016	−537	−185
18	−12.81	−0.37	+0.66	+ 33.3	+25.6	− 2.3	8.24479	−661	−124
19	−13.18	+0.05	+0.42	+ 58.9	+21.1	− 4.5	8.23818	−716	− 55
20	−13.13	+0.31	+0.26	+ 80.0	+16.1	− 5.0	8.23102	−713	+ 3
21	−12.82	+0.46	+0.15	+ 96.1	+11.5	− 4.6	8.22389	−662	+ 51
22	−12.36			+107.6			8.21727		
	s	s	s	″	″	″			
Febr. 7	+ 2.21	+0.06		+ 34.8	−27.6		8.22807	+646	
8	+ 2.27	−0.88	−0.94	+ 7.2	−26.5	+ 1.1	8.23453	+626	− 20
9	+ 1.39	−1.93	−1.05	− 19.3	−19.9	+ 6.6	8.24079	+553	− 73
10	− 0.54	−2.71	−0.78	− 39.2	− 7.5	+12.4	8.24632	+421	−132
11	− 3.25	−2.88	−0.17	− 46.7	+ 7.5	+15.0	8.25053	+234	−187
12	− 6.13	−2.46	+0.42	− 39.2	+20.7	+13.2	8.25287	+ 8	−226
13	− 8.59	−1.76	+0.70	− 18.5	+28.6	+ 7.9	8.25295	−223	−231
14	−10.35	−1.09	+0.67	+ 10.1	+30.6	+ 2.0	8.25072	−435	−212
15	−11.44	−0.59	+0.50	+ 40.7	+28.1	− 2.5	8.24637	−597	−162
16	−12.03	−0.24	+0.35	+ 68.8	+23.0	− 5.1	8.24040	−699	−102
17	−12.27	−0.01	+0.23	+ 91.8	+16.9	− 6.1	8.23341	−734	− 35
18	−12.28	+0.13	+0.14	+108.7	+11.4	− 5.5	8.22607	−709	+ 25
19	−12.15	+0.24	+0.11	+120.1	+ 6.7	− 4.7	8.21898	−639	+ 70
20	−11.91	+0.33	+0.09	+126.8	+ 3.2	− 3.5	8.21259	−539	+100
21	−11.58			+130.0			8.20720		
	s	s	s	″	″	″			
März 9	+ 0.07	−1.81		− 37.5	−11.7		8.23734	+433	
10	− 1.74	−2.21	−0.40	− 49.2	+ 0.3	+12.0	8.24167	+349	− 84
11	− 3.95	−2.13	+0.08	− 48.9	+12.9	+12.6	8.24516	+225	−124
12	− 6.08	−1.74	+0.39	− 36.0	+22.9	+10.0	8.24741	+ 62	−163
13	− 7.82	−1.27	+0.47	− 13.1	+29.0	+ 6.1	8.24803	−122	−184
14	− 9.09	−0.86	+0.41	+ 15.9	+30.5	+ 1.5	8.24681	−309	−187
15	− 9.95		+0.29	+ 46.4		− 2.2	8.24372		−161

Mondkrater Mösting A. 1930

Tag	$\alpha_{☾} - \alpha_k$ (s)			$\delta_{☾} - \delta_k$ (″)			log sin p_k		
	0h Welt-Zeit								
1930									
März 15	−9.95	−0.57	+0.29	+46.4	+28.3	−2.2	8.24372	−470	−161
16	−10.52	−0.39	+0.18	+74.7	+23.7	−4.6	8.23902	−589	−119
17	−10.91	−0.25	+0.14	+98.4	+17.5	−6.2	8.23313	−656	−67
18	−11.16	−0.17	+0.08	+115.9	+11.5	−6.0	8.22657	−666	−10
19	−11.33	−0.06	+0.11	+127.4	+6.2	−5.3	8.21991	−626	+40
20	−11.39	+0.07	+0.13	+133.6	+2.1	−4.1	8.21365	−541	+85
21	−11.32	+0.27	+0.20	+135.7	−0.7	−2.8	8.20824	−432	+109
22	−11.05			+135.0			8.20392		
April 7	−4.23	−1.61		−49.6	+8.9		8.23878	+175	
8	−5.84	−1.30	+0.31	−40.7	+17.8	+8.9	8.24053	+95	−80
9	−7.14	−0.92	+0.38	−22.9	+24.1	+6.3	8.24148	−3	−98
10	−8.06	−0.63	+0.29	+1.2	+27.5	+3.4	8.24145	−122	−119
11	−8.69	−0.42	+0.21	+28.7	+28.0	+0.5	8.24023	−247	−125
12	−9.11	−0.32	+0.10	+56.7	+25.8	−2.2	8.23776	−367	−120
13	−9.43	−0.30	+0.02	+82.5	+21.7	−4.1	8.23409	−467	−100
14	−9.73	−0.31	−0.01	+104.2	+16.5	−5.2	8.22942	−534	−67
15	−10.04	−0.31	0.00	+120.7	+10.8	−5.7	8.22408	−560	−26
16	−10.35	−0.24	+0.07	+131.5	+5.4	−5.4	8.21848	−544	+16
17	−10.59	−0.08	+0.16	+136.9	+1.2	−4.2	8.21304	−486	+58
18	−10.67	+0.18	+0.26	+138.1	−1.6	−2.8	8.20818	−395	+91
19	−10.49	+0.50	+0.32	+136.5	−3.1	−1.5	8.20423	−278	+117
20	−9.99	+0.79	+0.29	+133.4	−3.5	−0.4	8.20145	−145	+133
21	−9.20			+129.9			8.20000		
Mai 7	−8.75	−0.30		+0.4	+24.4		8.23748	−161	
8	−9.05	−0.09	+0.21	+24.8	+25.0	+0.6	8.23587	−219	−58
9	−9.14	−0.02	+0.07	+49.8	+24.0	−1.0	8.23368	−282	−63
10	−9.16	−0.04	−0.02	+73.8	+21.4	−2.6	8.23086	−341	−59
11	−9.20	−0.12	−0.08	+95.2	+17.8	−3.6	8.22745	−393	−52
12	−9.32	−0.22	−0.10	+113.0	+13.2	−4.6	8.22352	−432	−39
13	−9.54	−0.28	−0.06	+126.2	+8.2	−5.0	8.21920	−447	−15
14	−9.82	−0.24	+0.04	+134.4	+3.6	−4.6	8.21473	−437	+10
15	−10.06	−0.05	+0.19	+138.0	−0.3	−3.9	8.21036	−394	+43
16	−10.11	+0.25	+0.30	+137.7	−2.6	−2.3	8.20642	−323	+71
17	−9.86	+0.61	+0.36	+135.1	−3.7	−1.1	8.20319	−227	+96
18	−9.25	+0.92	+0.31	+131.4	−4.0	−0.3	8.20092	−109	+118
19	−8.33	+1.16	+0.24	+127.4	−4.1	−0.1	8.19983	+23	+132
20	−7.17	+1.30	+0.14	+123.3	−4.8	−0.7	8.20006	+161	+138
21	−5.87			+118.5			8.20167		

Tag	0^h Welt-Zeit								
	$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			log sin p_k		
1930									
Juni 5	−10.28^s	+0.17^s		+ 53.8″	+22.3″		8.23281	−374	
6	−10.11	+0.18	+0.01^s	+ 76.1	+19.5	−2.8″	8.22907	−385	− 11
7	− 9.93	+0.13	−0.05	+ 95.6	+16.2	−3.3	8.22522	−389	− 4
8	− 9.80	+0.01	−0.12	+111.8	+12.5	−3.7	8.22133	−388	+ 1
9	− 9.79	−0.11	−0.12	+124.3	+ 8.3	−4.2	8.21745	−383	+ 5
10	− 9.90	−0.15	−0.04	+132.6	+ 4.2	−4.1	8.21362	−368	+ 15
11	−10.05	−0.08	+0.07	+136.8	+ 0.4	−3.8	8.20994	−342	+ 26
12	−10.13	+0.15	+0.23	+137.2	− 2.4	−2.8	8.20652	−299	+ 43
13	− 9.98	+0.47	+0.32	+134.8	− 4.0	−1.6	8.20353	−240	+ 59
14	− 9.51	+0.82	+0.35	+130.8	− 4.6	−0.6	8.20113	−159	+ 81
15	− 8.69	+1.11	+0.29	+126.2	− 4.6	0.0	8.19954	− 60	+ 99
16	− 7.58	+1.32	+0.21	+121.6	− 4.8	−0.2	8.19894	+ 56	+116
17	− 6.26	+1.45	+0.13	+116.8	− 5.6	−0.8	8.19950	+182	+126
18	− 4.81	+1.50	+0.05	+111.2	− 7.4	−1.8	8.20132	+312	+130
19	− 3.31			+103.8			8.20444		
Juli 5	−11.04^s	+0.10^s		+117.8″	+11.0″		8.22195	−481	
6	−10.94	+0.02	−0.08^s	+128.8	+ 6.7	−4.3″	8.21714	−433	+ 48
7	−10.92	−0.02	−0.04	+135.5	+ 2.9	−3.8	8.21281	−384	+ 49
8	−10.94	+0.01	+0.03	+138.4	− 0.6	−3.5	8.20897	−332	+ 52
9	−10.93	+0.19	+0.18	+137.8	− 3.4	−2.8	8.20565	−279	+ 53
10	−10.74	+0.46	+0.27	+134.4	− 5.0	−1.6	8.20286	−223	+ 56
11	−10.28	+0.78	+0.32	+129.4	− 5.7	−0.7	8.20063	−161	+ 62
12	− 9.50	+1.08	+0.30	+123.7	− 5.7	0.0	8.19902	− 88	+ 73
13	− 8.42	+1.32	+0.24	+118.0	− 5.7	0.0	8.19814	− 5	+ 83
14	− 7.10	+1.48	+0.16	+112.3	− 5.9	−0.2	8.19809	+ 89	+ 94
15	− 5.62	+1.58	+0.10	+106.4	− 6.9	−1.0	8.19898	+196	+107
16	− 4.04	+1.62	+0.04	+ 99.5	− 8.8	−1.9	8.20094	+311	+115
17	− 2.42	+1.58	−0.04	+ 90.7	−11.8	−3.0	8.20405	+427	+116
18	− 0.84			+ 78.9			8.20832		
Aug. 3	−12.21^s	−0.07^s		+142.4″	+ 1.3″		8.21533	−501	
4	−12.28	+0.03	+0.10^s	+143.7	− 2.4	−3.7″	8.21032	−416	+ 85
5	−12.25	+0.21	+0.18	+141.3	− 5.2	−2.8	8.20616	−330	+ 86
6	−12.04	+0.50	+0.29	+136.1	− 6.7	−1.5	8.20286	−246	+ 84
7	−11.54	+0.81	+0.31	+129.4	− 7.3	−0.6	8.20040	−167	+ 79
8	−10.73	+1.09	+0.28	+122.1	− 7.3	0.0	8.19873	− 93	+ 74
9	− 9.64	+1.32	+0.23	+114.8	− 7.0	+0.3	8.19780	− 20	+ 73
10	− 8.32	+1.49	+0.17	+107.8	− 7.1	−0.1	8.19760	+ 52	+ 72
11	− 6.83		+0.10	+100.7		−0.5	8.19812		+ 78

Tag	0h Welt-Zeit								
	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1930									
Aug. 11	−6.83 s	+1.59 s	+0.10 s	+100.7″	−7.6″	−0.5″	8.19812	+130	+78
12	−5.24	+1.65	+0.06	+93.1	−8.9	−1.3	8.19942	+212	+82
13	−3.59	+1.66	+0.01	+84.2	−10.9	−2.0	8.20154	+302	+90
14	−1.93	+1.61	−0.05	+73.3	−13.8	−2.9	8.20456	+396	+94
15	−0.32	+1.46	−0.15	+59.5	−17.1	−3.3	8.20852	+487	+91
16	+1.14	+1.17	−0.29	+42.4	−20.6	−3.5	8.21339	+572	+85
17	+2.31			+21.8			8.21911		
Sept. 2	−13.29 s	+0.42 s		+140.6″	−8.6″		8.20527	−343	
3	−12.87	+0.80	+0.38 s	+132.0	−9.2	−0.6″	8.20184	−233	+110
4	−12.07	+1.11	+0.31	+122.8	−8.9	+0.3	8.19951	−130	+103
5	−10.96	+1.34	+0.23	+113.9	−8.3	+0.6	8.19821	−34	+96
6	−9.62	+1.49	+0.15	+105.6	−8.2	+0.1	8.19787	+47	+81
7	−8.13	+1.58	+0.09	+97.4	−8.7	−0.5	8.19834	+120	+73
8	−6.55	+1.61	+0.03	+88.7	−9.7	−1.0	8.19954	+184	+64
9	−4.94	+1.62	+0.01	+79.0	−11.4	−1.7	8.20138	+245	+61
10	−3.32	+1.57	−0.05	+67.6	−13.6	−2.2	8.20383	+304	+59
11	−1.75	+1.48	−0.09	+54.0	−16.2	−2.6	8.20687	+363	+59
12	−0.27	+1.27	−0.21	+37.8	−18.8	−2.6	8.21050	+423	+60
13	+1.00	+0.92	−0.35	+19.0	−20.9	−2.1	8.21473	+481	+58
14	+1.92	+0.31	−0.61	−1.9	−21.6	−0.7	8.21954	+530	+49
15	+2.23			−23.5			8.22484		
Okt. 1	−13.02 s	+1.03 s		+126.4″	−10.4″		8.20205	−226	
2	−11.99	+1.33	+0.30 s	+116.0	−9.6	+0.8″	8.19979	−101	+125
3	−10.66	+1.50	+0.17	+106.4	−8.9	+0.7	8.19878	+14	+115
4	−9.16	+1.58	+0.08	+97.5	−9.1	−0.2	8.19892	+116	+102
5	−7.58	+1.59	+0.01	+88.4	−10.1	−1.0	8.20008	+197	+81
6	−5.99	+1.56	−0.03	+78.3	−11.8	−1.7	8.20205	+263	+66
7	−4.43	+1.49	−0.07	+66.5	−14.0	−2.2	8.20468	+309	+46
8	−2.94	+1.36	−0.13	+52.5	−16.5	−2.5	8.20777	+339	+30
9	−1.58	+1.15	−0.21	+36.0	−18.8	−2.3	8.21116	+364	+25
10	−0.43	+0.83	−0.32	+17.2	−20.3	−1.5	8.21480	+379	+15
11	+0.40	+0.35	−0.48	−3.1	−20.3	0.0	8.21859	+392	+13
12	+0.75	−0.25	−0.60	−23.4	−17.8	+2.5	8.22251	+400	+8
13	+0.50	−0.87	−0.62	−41.2	−12.5	+5.3	8.22651	+404	+4
14	−0.37	−1.33	−0.46	−53.7	−3.9	+8.6	8.23055	+398	−6
15	−1.70			−57.6			8.23453		

Tag	0ʰ Welt-Zeit								
	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1930									
Okt. 31	−9ˢ.74	+1ˢ.60		+99″.9	−9″.1		8.19959	+ 53	
Nov. 1	−8.14	+1.63	+0ˢ.03	+90.8	−9.6	−0″.5	8.20012	+176	+123
2	−6.51	+1.59	−0.04	+81.2	−11.0	−1.4	8.20188	+280	+104
3	−4.92	+1.49	−0.10	+70.2	−13.5	−2.5	8.20468	+357	+ 77
4	−3.43	+1.32	−0.17	+56.7	−16.3	−2.8	8.20825	+406	+ 49
5	−2.11	+1.06	−0.26	+40.4	−19.0	−2.7	8.21231	+426	+ 20
6	−1.05	+0.70	−0.36	+21.4	−20.9	−1.9	8.21657	+421	− 5
7	−0.35	+0.18	−0.52	+ 0.5	−20.9	0.0	8.22078	+393	− 28
8	−0.17	−0.43	−0.61	−20.4	−18.2	+ 2.7	8.22471	+352	− 41
9	−0.60	−1.01	−0.58	−38.6	−12.2	+ 6.0	8.22823	+305	− 47
10	−1.61	−1.36	−0.35	−50.8	− 3.5	+ 8.7	8.23128	+253	− 52
11	−2.97	−1.37	−0.01	−54.3	+ 6.2	+ 9.7	8.23381	+205	− 48
12	−4.34	−1.12	+0.25	−48.1	+15.1	+ 8.9	8.23586	+157	− 48
13	−5.46			−33.0			8.23743		
Nov. 29	−6ˢ.69	+1ˢ.69		+84″.1	− 9″.7		8.20058	+218	
30	−5.00	+1.62	−0ˢ.07	+74.4	−11.6	− 1″.9	8.20276	+341	+123
Dez. 1	−3.38	+1.48	−0.14	+62.8	−14.4	− 2.8	8.20617	+443	+102
2	−1.90	+1.22	−0.26	+48.4	−17.7	− 3.3	8.21060	+514	+ 71
3	−0.68	+0.83	−0.39	+30.7	−20.7	− 3.0	8.21574	+543	+ 29
4	+0.15	+0.25	−0.58	+10.0	−22.0	− 1.3	8.22117	+537	− 6
5	+0.40	−0.49	−0.74	−12.0	−20.5	+ 1.5	8.22654	+484	− 53
6	−0.09	−1.25	−0.76	−32.5	−14.8	+ 5.7	8.23138	+398	− 86
7	−1.34	−1.77	−0.52	−47.3	− 5.2	+ 9.6	8.23536	+291	−107
8	−3.11	−1.84	−0.07	−52.5	+ 6.2	+11.4	8.23827	+173	−118
9	−4.95	−1.49	+0.35	−46.3	+16.4	+10.2	8.24000	+ 58	−115
10	−6.44	−0.98	+0.51	−29.9	+23.5	+ 7.1	8.24058	− 41	− 99
11	−7.42	−0.52	+0.46	− 6.4	+27.2	+ 3.7	8.24017	−120	− 79
12	−7.94	−0.22	+0.30	+20.8	+28.3	+ 1.1	8.23897	−180	− 60
13	−8.16			+49.1			8.23717		
Dez. 29	−1ˢ.68	+1ˢ.54		+53″.3	−14″.8		8.20605	+487	
30	−0.14	+1.24	−0ˢ.30	+38.5	−18.3	− 3″.5	8.21092	+585	+ 98
31	+1.10	+0.74	−0.50	+20.2	−21.1	− 2.8	8.21677	+646	+ 61
32	+1.84			− 0.9			8.22323		

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT I

		h	m	
Jan.	1	6	29.5	A.
	3	0	58.3	A.
	4	19	27.2	A.
	6	13	56.1	A.
	8	8	25.0	A.
	10	2	53.9	A.
	11	21	22.8	A.
	13	15	51.7	A.
	15	10	20.6	A.
	17	4	49.5	A.
	18	23	18.4	A.
	20	17	47.3	A.
	22	12	16.3	A.
	24	6	45.1	A.
	26	1	14.1	A.
	27	19	43.0	A.
	29	14	12.0	A.
	31	8	40.8	A.
Febr.	2	3	9.8	A.
	3	21	38.7	A.
	5	16	7.7	A.
	7	10	36.6	A.
	9	5	5.5	A.
	10	23	34.4	A.
	12	18	3.4	A.
	14	12	32.3	A.
	16	7	1.3	A.
	18	1	30.1	A.
	19	19	59.1	A.
	21	14	28.0	A.
	23	8	57.0	A.
	25	3	25.9	A.
	26	21	54.9	A.
	28	16	23.7	A.
März	2	10	52.7	A.
	4	5	21.5	A.
	5	23	50.5	A.
	7	18	19.3	A.
	9	12	48.3	A.
	11	7	17.1	A.
	13	1	46.1	A.
	14	20	14.9	A.
	16	14	43.9	A.
	18	9	12.7	A.
	20	3	41.7	A.
	21	22	10.5	A.
	23	16	39.4	A.
	25	11	8.2	A.

TRABANT I

		h	m	
März	27	5	37.1	A.
	29	0	5.9	A.
	30	18	34.8	A.
April	1	13	3.6	A.
	3	7	32.5	A.
	5	2	1.3	A.
	6	20	30.2	A.
	8	14	59.0	A.
	10	9	27.9	A.
	12	3	56.6	A.
	13	22	25.5	A.
	15	16	54.2	A.
	17	11	23.1	A.
	19	5	51.8	A.
	21	0	20.6	A.
	22	18	49.4	A.
	24	13	18.2	A.
	26	7	47.0	A.
	28	2	15.7	A.
	29	20	44.5	A.
Mai	1	15	13.3	A.
	3	9	41.9	A.
	5	4	10.7	A.
	6	22	39.4	A.
	8	17	8.2	A.
	10	11	36.9	A.
	12	6	5.6	A.
	14	0	34.3	A.
	15	19	3.0	A.
	17	13	31.7	A.
	19	8	0.4	A.
	21	2	29.0	A.
	22	20	57.7	A.
	24	15	26.4	A.
	26	9	55.0	A.
	28	4	23.7	A.
	29	22	52.3	A.
Juli	13	2	33.2	E.
	14	21	1.6	E.
	16	15	30.1	E.
	18	9	58.6	E.
	20	4	27.0	E.
	21	22	55.5	E.
	23	17	23.9	E.
	25	11	52.4	E.
	27	6	20.8	E.
	29	0	49.2	E.
	30	19	17.7	E.

TRABANT I

		h	m	
Aug.	1	13	46.1	E.
	3	8	14.5	E.
	5	2	42.9	E.
	6	21	11.3	E.
	8	15	39.7	E.
	10	10	8.1	E.
	12	4	36.5	E.
	13	23	4.9	E.
	15	17	33.3	E.
	17	12	1.7	E.
	19	6	30.1	E.
	21	0	58.5	E.
	22	19	26.8	E.
	24	13	55.2	E.
	26	8	23.6	E.
	28	2	52.0	E.
	29	21	20.3	E.
	31	15	48.7	E.
Sept.	2	10	17.0	E.
	4	4	45.4	E.
	5	23	13.7	E.
	7	17	42.1	E.
	9	12	10.4	E.
	11	6	38.8	E.
	13	1	7.1	E.
	14	19	35.5	E.
	16	14	3.8	E.
	18	8	32.2	E.
	20	3	0.5	E.
	21	21	28.9	E.
	23	15	57.2	E.
	25	10	25.6	E.
	27	4	53.9	E.
	28	23	22.3	E.
	30	17	50.6	E.
Okt.	2	12	19.0	E.
	4	6	47.3	E.
	6	1	15.7	E.
	7	19	44.0	E.
	9	14	12.4	E.
	11	8	40.7	E.
	13	3	9.1	E.
	14	21	37.4	E.
	16	16	5.8	E.
	18	10	34.1	E.
	20	5	2.5	E.
	21	23	30.8	E.
	23	17	59.2	E.

TRABANT I

		h	m	
Okt.	25	12	27.5	E.
	27	6	56.0	E.
	29	1	24.3	E.
	30	19	52.7	E.
Nov.	1	14	21.0	E.
	3	8	49.5	E.
	5	3	17.8	E.
	6	21	46.2	E.
	8	16	14.6	E.
	10	10	43.0	E.
	12	5	11.4	E.
	13	23	39.9	E.
	15	18	8.2	E.
	17	12	36.7	E.
	19	7	5.1	E.
	21	1	33.6	E.
	22	20	2.0	E.
	24	14	30.5	E.
	26	8	58.9	E.
	28	3	27.4	E.
	29	21	55.8	E.
Dez.	1	16	24.4	E.
	3	10	52.8	E.
	5	5	21.3	E.
	6	23	49.8	E.
	8	18	18.3	E.
	10	12	46.8	E.
	12	7	15.4	E.
	14	1	43.9	E.
	15	20	12.5	E.
	17	14	41.0	E.
	19	9	9.6	E.
	21	3	38.1	E.
	22	22	6.7	E.
	24	16	35.3	E.
	26	11	3.9	E.
	28	5	32.5	E.
	30	0	1.1	E.
	31	18	29.7	E.

TRABANT II

		h	m	
Jan.	2	6	13.2	A.
	5	19	31.1	A.
	9	8	48.9	A.
	12	22	6.8	A.
	16	11	24.7	A.
	20	0	42.7	A.
	23	14	0.7	A.

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT II

		h	m	
Jan.	27	3	18.9	A.
	30	16	36.9	A.
Febr.	3	5	55.1	A.
	6	16	44.4	E.
	6	19	13.3	A.
	10	6	2.4	E.
	10	8	31.5	A.
	13	19	20.4	E.
	13	21	49.8	A.
	17	8	38.5	E.
	17	11	8.1	A.
	20	21	56.6	E.
	21	0	26.4	A.
	24	11	14.7	E.
	24	13	44.7	A.
	28	0	32.9	E.
	28	3	3.2	A.
März	3	13	51.0	E.
	3	16	21.6	A.
	7	3	9.3	E.
	7	5	40.2	A.
	10	16	27.5	E.
	10	18	58.6	A.
	14	5	45.8	E.
	14	8	17.2	A.
	17	19	4.1	E.
	17	21	35.7	A.
	21	10	54.4	A.
	25	0	12.9	A.
	28	13	31.8	A.
April	1	2	50.2	A.
	4	16	9.1	A.
	8	5	27.7	A.
	11	18	46.6	A.
	15	8	5.2	A.
	18	21	24.3	A.
	22	10	42.8	A.
	26	0	1.9	A.
	29	13	20.5	A.
Mai	3	2	39.7	A.
	6	15	58.2	A.
	10	5	17.4	A.
	13	18	36.0	A.
	17	7	55.3	A.
	20	21	13.8	A.
	24	10	33.1	A.
	27	23	51.6	A.
Juli	13	2	17.5	E.

TRABANT II

		h	m	
Juli	16	15	35.6	E.
	20	4	54.6	E.
	23	18	12.6	E.
	27	7	31.5	E.
	30	20	49.5	E.
Aug.	3	10	8.3	E.
	6	23	26.3	E.
	10	12	45.1	E.
	14	2	2.9	E.
	17	15	21.6	E.
	21	4	39.4	E.
	24	17	58.0	E.
	28	7	15.8	E.
	31	20	34.3	E.
Sept.	4	9	52.0	E.
	7	23	10.4	E.
	11	12	28.0	E.
	15	1	46.3	E.
	18	15	3.9	E.
	22	4	22.1	E.
	25	17	39.6	E.
	29	6	57.7	E.
Okt.	2	20	15.1	E.
	6	9	33.1	E.
	9	22	50.5	E.
	13	12	8.3	E.
	17	1	25.7	E.
	20	14	43.4	E.
	24	4	0.8	E.
	27	17	18.4	E.
	31	6	35.7	E.
Nov.	3	19	53.2	E.
	7	9	10.4	E.
	10	22	27.9	E.
	14	11	45.1	E.
	18	1	2.5	E.
	21	14	19.7	E.
	25	3	37.0	E.
	28	16	54.2	E.
Dez.	2	6	11.5	E.
	5	19	28.6	E.
	9	8	45.9	E.
	12	22	3.0	E.
	16	11	20.3	E.
	20	0	37.4	E.
	23	13	54.7	E.
	27	3	11.9	E.
	30	16	29.1	E.

TRABANT III

		h	m	
Jan.	2	8	52.6	E.
	2	11	18.8	A.
	9	12	52.9	E.
	9	15	20.3	A.
	16	16	53.2	E.
	16	19	21.7	A.
	23	20	54.3	E.
	23	23	23.4	A.
	31	0	55.0	E.
	31	3	25.9	A.
Febr.	7	4	56.0	E.
	7	7	28.1	A.
	14	8	57.5	E.
	14	11	30.7	A.
	21	12	58.0	E.
	21	15	32.5	A.
	28	16	58.4	E.
	28	19	34.1	A.
März	7	20	58.8	E.
	7	23	35.6	A.
	15	0	59.3	E.
	15	3	37.3	A.
	22	5	0.4	E.
	22	7	39.7	A.
	29	9	1.3	E.
	29	11	41.6	A.
April	5	13	2.3	E.
	5	15	43.8	A.
	12	17	2.5	E.
	12	19	45.2	A.
	19	21	2.4	E.
	19	23	46.3	A.
	27	1	2.3	E.
	27	3	47.3	A.
Mai	4	5	2.2	E.
	4	7	48.3	A.
	11	11	50.1	A.
	18	15	51.4	A.
	25	19	52.9	A.
Juli	14	20	59.1	E.
	22	0	57.8	E.
	29	4	56.4	E.
Aug.	5	8	54.7	E.
	12	12	53.3	E.
	12	15	54.9	A.
	19	16	52.6	E.
	19	19	55.1	A.
	26	20	51.4	E.

TRABANT III

		h	m	
Aug.	26	23	55.0	A.
Sept.	3	0	50.4	E.
	3	3	55.0	A.
	10	4	48.7	E.
	10	7	54.2	A.
	17	8	46.6	E.
	17	11	53.2	A.
	24	12	44.6	E.
	24	15	52.2	A.
Okt.	1	16	42.9	E.
	1	19	51.5	A.
	8	20	41.9	E.
	8	23	51.4	A.
	16	0	40.5	E.
	16	3	51.0	A.
	23	4	39.4	E.
	23	7	50.7	A.
	30	8	37.4	E.
	30	11	49.7	A.
Nov.	6	12	35.4	E.
	6	15	48.6	A.
	13	16	33.6	E.
	13	19	47.6	A.
	20	20	32.0	E.
	20	23	47.0	A.
	28	0	31.3	E.
	28	3	47.1	A.
Dez.	5	4	30.2	E.
	12	8	29.4	E.
	19	12	28.2	E.
	26	16	26.8	E.

TRABANT IV

		h	m	
Sept.	25	19	21.2	E.
	25	20	23.3	A.
Okt.	12	13	12.4	E.
	12	14	42.9	A.
	29	7	6.8	E.
	29	8	58.8	A.
Nov.	15	1	3.9	E.
	15	3	13.5	A.
Dez.	1	19	1.4	E.
	1	21	26.5	A.
	18	13	0.1	E.
	18	15	39.0	A.

0h Welt-Zeit	α	β	p_a	a	b	U′	B′	P′
1930								
Jan. −2	15.11	13.86	0.00	34.04	+15.08	106.228	+26.270	+ 7.562
+2	15.12	13.87	0.00	34.06	15.06	106.362	26.259	7.623
6	15.14	13.89	0.00	34.08	15.04	106.495	26.247	7.684
10	15.16	13.90	0.00	34.12	15.02	106.628	26.236	7.744
14	15.18	13.92	0.00	34.18	15.01	106.762	26.224	7.805
18	15.21	13.95	0.00	34.25	+15.00	106.895	+26.213	+ 7.866
22	15.25	13.99	−0.01	34.33	15.00	107.029	26.201	7.927
26	15.29	14.02	0.01	34.43	15.01	107.162	26.190	7.987
30	15.34	14.06	0.01	34.54	15.02	107.296	26.178	8.048
Febr. 3	15.39	14.11	0.01	34.66	15.04	107.429	26.166	8.108
7	15.45	14.17	−0.02	34.79	+15.06	107.563	+26.153	+ 8.169
11	15.51	14.22	0.02	34.94	15.08	107.696	26.141	8.229
15	15.58	14.28	0.02	35.10	15.11	107.830	26.129	8.289
19	15.65	14.35	0.02	35.27	15.14	107.963	26.116	8.350
23	15.73	14.42	0.03	35.45	15.18	108.097	26.104	8.410
27	15.81	14.50	−0.03	35.64	+15.23	108.230	+26.092	+ 8.470
März 3	15.90	14.57	0.03	35.83	15.29	108.363	26.079	8.531
7	15.99	14.65	0.03	36.03	15.35	108.496	26.066	8.591
11	16.09	14.74	0.04	36.25	15.41	108.629	26.052	8.651
15	16.19	14.83	0.04	36.47	15.48	108.762	26.039	8.711
19	16.29	14.92	−0.04	36.70	+15.55	108.895	+26.026	+ 8.771
23	16.39	15.02	0.04	36.94	15.63	109.029	26.012	8.831
27	16.50	15.11	0.04	37.19	15.71	109.162	25.999	8.891
31	16.61	15.21	0.04	37.43	15.79	109.295	25.986	8.951
April 4	16.73	15.31	0.04	37.68	15.88	109.428	25.972	9.011
8	16.84	15.41	−0.04	37.93	+15.98	109.561	+25.958	+ 9.071
12	16.96	15.51	0.04	38.19	16.08	109.694	25.943	9.130
16	17.07	15.62	0.04	38.44	16.18	109.827	25.929	9.190
20	17.18	15.72	0.04	38.70	16.28	109.960	25.915	9.249
24	17.29	15.82	0.04	38.95	16.39	110.093	25.900	9.309
28	17.40	15.92	−0.03	39.19	+16.50	110.226	+25.886	+ 9.368
Mai 2	17.51	16.02	0.03	39.44	16.61	110.359	25.872	9.428
6	17.62	16.12	0.03	39.68	16.72	110.491	25.857	9.487
10	17.72	16.21	0.03	39.91	16.83	110.624	25.842	9.547
14	17.82	16.30	0.02	40.13	16.94	110.756	25.826	9.606
18	17.92	16.39	−0.02	40.34	+17.05	110.889	+25.811	+ 9.665
22	18.01	16.47	0.02	40.54	17.16	111.022	25.796	9.724
26	18.09	16.54	0.02	40.73	17.26	111.154	25.780	9.783
30	18.16	16.61	0.01	40.90	17.36	111.287	25.765	9.842
Juni 3	18.23	16.68	0.01	41.05	17.46	111.419	25.750	9.901
7	18.29	16.74	−0.01	41.19	+17.55	111.552	+25.734	+ 9.960
11	18.34	16.79	0.01	41.31	17.63	111.684	25.718	10.019
15	18.38	16.83	−0.01	41.41	17.70	111.816	25.702	10.078
19	18.41	16.86	0.00	41.49	17.77	111.949	25.685	10.137
23	18.44	16.89	0.00	41.54	17.84	112.081	25.669	10.195
27	18.46	16.91	0.00	41.57	17.90	112.213	25.653	10.254
Juli 1	18.47	16.92	0.00	41.58	+17.95	112.345	+25.637	+10.312

0h Welt-Zeit		α	β	p_a	a	b	U'	B'	P'
1930									
Juli	1	18.47	16.92	0.00	41.58	+17.95	112.345	+25.637	+10.312
	5	18.46	16.92	0.00	41.57	17.98	112.477	25.620	10.371
	9	18.44	16.90	0.00	41.54	18.00	112.610	25.604	10.429
	13	18.42	16.87	0.00	41.49	18.01	112.742	25.587	10.488
	17	18.39	16.84	0.01	41.42	18.01	112.874	25.570	10.546
	21	18.35	16.81	+0.01	41.32	+18.01	113.006	+25.552	+10.604
	25	18.30	16.77	0.01	41.21	18.00	113.138	25.535	10.662
	29	18.24	16.72	0.01	41.08	17.98	113.270	25.518	10.720
Aug.	2	18.17	16.66	0.02	40.93	17.94	113.403	25.501	10.779
	6	18.10	16.59	0.02	40.76	17.89	113.535	25.483	10.837
	10	18.02	16.52	+0.02	40.58	+17.83	113.667	+25.466	+10.895
	14	17.93	16.44	0.02	40.39	17.76	113.799	25.448	10.953
	18	17.84	16.36	0.03	40.18	17.69	113.931	25.430	11.011
	22	17.74	16.27	0.03	39.96	17.61	114.063	25.411	11.068
	26	17.64	16.18	0.03	39.73	17.53	114.195	25.393	11.126
	30	17.53	16.08	+0.03	39.49	+17.44	114.327	+25.375	+11.184
Sept.	3	17.42	15.98	0.03	39.25	17.34	114.459	25.357	11.242
	7	17.31	15.88	0.04	39.00	17.24	114.590	25.338	11.299
	11	17.20	15.78	0.04	38.75	17.14	114.722	25.320	11.357
	15	17.09	15.68	0.04	38.50	17.03	114.854	25.301	11.414
	19	16.98	15.57	+0.04	38.25	+16.92	114.986	+25.282	+11.472
	23	16.86	15.47	0.04	37.99	16.81	115.117	25.262	11.529
	27	16.75	15.36	0.04	37.73	16.69	115.249	25.243	11.586
Okt.	1	16.64	15.26	0.04	37.48	16.57	115.381	25.224	11.643
	5	16.53	15.16	0.04	37.23	16.45	115.512	25.205	11.700
	9	16.42	15.06	+0.04	36.99	+16.34	115.644	+25.185	+11.757
	13	16.32	14.96	0.04	36.75	16.22	115.775	25.166	11.814
	17	16.22	14.87	0.04	36.52	16.10	115.906	25.146	11.871
	21	16.12	14.78	0.03	36.30	15.99	116.037	25.126	11.927
	25	16.02	14.69	0.03	36.09	15.87	116.169	25.106	11.984
	29	15.93	14.60	+0.03	35.88	+15.76	116.300	+25.086	+12.040
Nov.	2	15.84	14.52	0.03	35.69	15.65	116.431	25.065	12.097
	6	15.76	14.44	0.02	35.50	15.54	116.562	25.045	12.154
	10	15.68	14.37	0.02	35.32	15.43	116.694	25.025	12.210
	14	15.61	14.30	0.02	35.15	15.33	116.825	25.005	12.267
	18	15.54	14.24	+0.02	34.99	+15.23	116.956	+24.984	+12.323
	22	15.48	14.18	0.01	34.85	15.13	117.087	24.963	12.380
	26	15.42	14.12	0.01	34.72	15.03	117.218	24.942	12.436
	30	15.36	14.07	0.01	34.60	14.94	117.349	24.921	12.492
Dez.	4	15.31	14.03	0.01	34.49	14.85	117.480	24.900	12.548
	8	15.27	13.99	+0.01	34.39	+14.77	117.610	+24.879	+12.604
	12	15.23	13.95	0.00	34.31	14.69	117.741	24.858	12.660
	16	15.20	13.92	0.00	34.24	14.61	117.872	24.837	12.716
	20	15.17	13.90	0.00	34.18	14.54	118.003	24.816	12.772
	24	15.15	13.88	0.00	34.13	14.47	118.134	24.794	12.827
	28	15.14	13.86	0.00	34.10	14.40	118.264	24.773	12.883
	32	15.13	13.85	0.00	34.08	+14.33	118.395	+24.751	+12.938

Saturn und Saturnsring 1930

0h Welt-Zeit	U		B		P	
1930						
Jan. 0	148°.891	260	+26°.270	30	+6°.302	17
2	149.151	260	26.240	31	6.319	17
4	149.411	258	26.209	31	6.336	17
6	149.669	257	26.178	32	6.353	16
8	149.926	256	26.146	32	6.369	16
10	150.182	254	+26.114	32	+6.385	16
12	150.436	253	26.082	32	6.401	16
14	150.689	251	26.050	33	6.417	16
16	150.940	249	26.017	34	6.433	15
18	151.189	247	25.983	33	6.448	15
20	151.436	245	+25.950	34	+6.463	14
22	151.681	242	25.916	34	6.477	14
24	151.923	240	25.882	34	6.491	14
26	152.163	237	25.848	34	6.505	13
28	152.400	234	25.814	34	6.518	13
30	152.634	231	+25.780	34	+6.531	13
Febr. 1	152.865	227	25.746	34	6.544	13
3	153.092	223	25.712	34	6.557	12
5	153.315	220	25.678	34	6.569	12
7	153.535	216	25.644	34	6.581	12
9	153.751	212	+25.610	33	+6.593	12
11	153.963	208	25.577	33	6.605	11
13	154.171	204	25.544	33	6.616	11
15	154.375	200	25.511	32	6.627	11
17	154.575	195	25.479	32	6.638	10
19	154.770	190	+25.447	32	+6.648	10
21	154.960	185	25.415	32	6.658	10
23	155.145	181	25.383	31	6.668	9
25	155.326	176	25.352	30	6.677	9
27	155.502	170	25.322	29	6.686	9
März 1	155.672	165	+25.293	29	+6.695	8
3	155.837	160	25.264	28	6.703	8
5	155.997	154	25.236	26	6.711	8
7	156.151	148	25.210	26	6.719	7
9	156.299	143	25.184	25	6.726	7
11	156.442	137	+25.159	24	+6.733	7
13	156.579	131	25.135	23	6.740	6
15	156.710	124	25.112	22	6.746	6
17	156.834	118	25.090	22	6.752	5
19	156.952	112	25.068	21	6.757	5
21	157.064	105	+25.047	19	+6.762	5
23	157.169	99	25.028	18	6.767	4
25	157.268	92	25.010	17	6.771	4
27	157.360	85	24.993	16	6.775	4
29	157.445	79	24.977	15	6.779	3
31	157.524	72	24.962	14	6.782	3
April 2	157.596		+24.948		+6.785	

0h Welt-Zeit	U		B		P	
1930						
April 2	157°.596	65	+24°.948	12	+6°.785	3
4	157.661	58	24.936	11	6.788	3
6	157.719	51	24.925	10	6.791	2
8	157.770	44	24.915	9	6.793	2
10	157.814	37	24.906	7	6.795	2
12	157.851	30	+24.899	6	+6.797	1
14	157.881	23	24.893	4	6.798	1
16	157.904	16	24.889	3	6.799	1
18	157.920	9	24.886	2	6.800	0
20	157.929	2	24.884	0	6.800	0
22	157.931	−5	+24.884	1	+6.800	0
24	157.926	12	24.885	3	6.800	1
26	157.914	20	24.888	4	6.799	1
28	157.894	27	24.892	6	6.798	1
30	157.867	33	24.898	7	6.797	2
Mai 2	157.834	40	+24.905	8	+6.795	2
4	157.794	47	24.913	9	6.793	2
6	157.747	54	24.922	10	6.791	2
8	157.693	60	24.932	12	6.789	3
10	157.633	66	24.944	13	6.786	3
12	157.567	73	+24.957	14	+6.783	3
14	157.494	79	24.971	15	6.780	3
16	157.415	85	24.986	17	6.777	4
18	157.330	91	25.003	18	6.773	4
20	157.239	97	25.021	19	6.769	4
22	157.142	102	+25.040	20	+6.765	5
24	157.040	108	25.060	21	6.760	5
26	156.932	113	25.081	22	6.755	5
28	156.819	118	25.103	23	6.750	5
30	156.701	123	25.126	24	6.745	6
Juni 1	156.578	127	+25.150	24	+6.739	6
3	156.451	131	25.174	25	6.733	6
5	156.320	135	25.199	26	6.727	7
7	156.185	139	25.225	27	6.720	7
9	156.046	142	25.252	27	6.713	7
11	155.904	145	+25.279	27	+6.706	7
13	155.759	149	25.306	28	6.699	8
15	155.610	152	25.334	28	6.691	7
17	155.458	153	25.362	28	6.684	8
19	155.305	155	25.390	29	6.676	8
21	155.150	157	+25.419	29	+6.668	8
23	154.993	159	25.448	29	6.660	8
25	154.834	159	25.477	29	6.652	8
27	154.675	160	25.506	29	6.644	8
29	154.515	161	25.535	30	6.636	9
Juli 1	154.354	161	25.565	29	6.627	8
3	154.193		+25.594		+6.619	

0^h Welt-Zeit		U		B		P	
1930							
Juli	3	154.193	160	+25.594	29	+6.619	8
	5	154.033	160	25.623	29	6.611	8
	7	153.873	159	25.652	29	6.603	9
	9	153.714	158	25.681	28	6.594	8
	11	153.556	156	25.709	28	6.586	8
	13	153.400	154	+25.737	28	+6.578	8
	15	153.246	153	25.765	27	6.570	9
	17	153.093	150	25.792	26	6.561	8
	19	152.943	147	25.818	26	6.553	8
	21	152.796	144	25.844	26	6.545	8
	23	152.652	141	+25.870	25	+6.537	9
	25	152.511	138	25.895	24	6.528	8
	27	152.373	133	25.919	24	6.520	8
	29	152.240	129	25.943	23	6.512	7
	31	152.111	125	25.966	22	6.505	7
Aug.	2	151.986	120	+25.988	22	+6.498	7
	4	151.866	115	26.010	21	6.491	7
	6	151.751	110	26.031	20	6.484	6
	8	151.641	105	26.051	19	6.478	6
	10	151.536	99	26.070	18	6.472	6
	12	151.437	93	+26.088	18	+6.466	5
	14	151.344	87	26.106	17	6.461	5
	16	151.257	81	26.123	16	6.456	5
	18	151.176	75	26.139	15	6.451	4
	20	151.101	68	26.154	14	6.447	4
	22	151.033	62	+26.168	13	+6.443	4
	24	150.971	55	26.181	12	6.439	3
	26	150.916	48	26.193	11	6.436	3
	28	150.868	42	26.204	10	6.433	2
	30	150.826	35	26.214	10	6.431	2
Sept.	1	150.791	28	+26.224	8	+6.429	2
	3	150.763	21	26.232	7	6.427	1
	5	150.742	14	26.239	6	6.426	1
	7	150.728	6	26.245	6	6.425	0
	9	150.722	1	26.251	4	6.425	0
	11	150.723	8	+26.255	3	+6.425	0
	13	150.731	15	26.258	2	6.425	1
	15	150.746	22	26.260	2	6.426	2
	17	150.768	30	26.262	1	6.428	2
	19	150.798	37	26.263	1	6.430	3
	21	150.835	44	+26.262	2	+6.433	3
	23	150.879	51	26.260	2	6.436	3
	25	150.930	59	26.258	3	6.439	4
	27	150.989	66	26.255	5	6.443	4
	29	151.055	72	26.250	5	6.447	5
Okt.	1	151.127	79	26.245	7	6.452	5
	3	151.206		+26.238		+6.457	

0^h Welt-Zeit		U		B		P	
1930							
Okt.	3	151.206	86	+26.238	8	+6.457	6
	5	151.292	93	26.230	9	6.463	6
	7	151.385	99	26.221	10	6.469	6
	9	151.484	106	26.211	11	6.475	6
	11	151.590	113	26.200	12	6.481	7
	13	151.703	119	+26.188	13	+6.488	7
	15	151.822	125	26.175	15	6.495	7
	17	151.947	132	26.160	15	6.502	8
	19	152.079	138	26.145	16	6.510	8
	21	152.217	144	26.129	17	6.518	8
	23	152.361	149	+26.112	19	+6.526	9
	25	152.510	155	26.093	20	6.535	9
	27	152.665	161	26.073	21	6.544	9
	29	152.826	166	26.052	22	6.553	10
	31	152.992	171	26.030	23	6.563	10
Nov.	2	153.163	176	+26.007	23	+6.573	10
	4	153.339	181	25.984	25	6.583	10
	6	153.520	186	25.959	25	6.593	10
	8	153.706	190	25.934	27	6.603	10
	10	153.896	195	25.907	28	6.613	11
	12	154.091	200	+25.879	29	+6.624	11
	14	154.291	204	25.850	30	6.635	11
	16	154.495	208	25.820	31	6.646	11
	18	154.703	212	25.789	32	6.657	11
	20	154.915	215	25.757	33	6.668	11
	22	155.130	219	+25.724	34	+6.679	11
	24	155.349	222	25.690	35	6.690	11
	26	155.571	226	25.655	36	6.701	12
	28	155.797	229	25.619	37	6.713	12
	30	156.026	232	25.582	38	6.725	11
Dez.	2	156.258	234	+25.544	39	+6.736	12
	4	156.492	237	25.505	40	6.748	12
	6	156.729	239	25.465	41	6.760	12
	8	156.968	242	25.424	42	6.772	12
	10	157.210	243	25.382	43	6.784	11
	12	157.453	245	+25.339	43	+6.795	11
	14	157.698	247	25.296	44	6.806	11
	16	157.945	249	25.252	45	6.817	11
	18	158.194	250	25.207	46	6.828	11
	20	158.444	251	25.161	46	6.839	11
	22	158.695	252	+25.115	47	+6.850	10
	24	158.947	253	25.068	48	6.860	11
	26	159.200	254	25.020	48	6.871	10
	28	159.454	254	24.972	49	6.881	10
	30	159.708	254	24.923	49	6.891	10
	32	159.962		+24.874		+6.901	

MIMAS

0h Welt-Zeit	L	M	log a(Δ)/Δ	a(Δ)/Δ sin B
1930				
März 11	62.141°	245.89°	1.39269	+10.50″
13	106.112	287.87	1.39402	10.52
15	150.084	329.84	1.39535	10.54
17	194.056	11.81	1.39671	10.57
19	238.027	53.78	1.39808	10.60
21	281.999	95.75	1.39947	+10.62
23	325.971	137.72	1.40087	10.65
25	9.942	179.70	1.40229	10.68
27	53.914	221.67	1.40371	10.70
29	97.886	263.64	1.40514	10.73
31	141.857	305.62	1.40658	+10.76
April 2	185.829	347.59	1.40803	10.79
4	229.801	29.56	1.40949	10.82
6	273.773	71.53	1.41094	10.85
8	317.744	113.50	1.41240	10.89
10	1.716	155.47	1.41386	+10.92
12	45.687	197.44	1.41531	10.96
14	89.659	239.42	1.41677	10.99
16	133.630	281.39	1.41822	11.03
18	177.602	323.36	1.41966	11.06
20	221.573	5.33	1.42109	+11.10
22	265.545	47.30	1.42251	11.13
24	309.516	89.27	1.42392	11.17
26	353.488	131.24	1.42532	11.20
28	37.459	173.21	1.42670	11.24
30	81.431	215.19	1.42806	+11.28
Mai 2	125.402	257.16	1.42940	11.31
4	169.374	299.13	1.43072	11.35
6	213.345	341.10	1.43202	11.39
8	257.316	23.07	1.43330	11.43
10	301.288	65.04	1.43454	+11.46
12	345.259	107.01	1.43576	11.50
14	29.231	148.98	1.43695	11.53
16	73.202	190.96	1.43810	11.57
18	117.173	232.93	1.43922	11.61
20	161.145	274.90	1.44031	+11.65
22	205.116	316.87	1.44136	11.69
24	249.088	358.84	1.44237	11.72
26	293.059	40.81	1.44334	11.76
28	337.031	82.79	1.44426	+11.80

MIMAS

0h Welt-Zeit	L	M	log a(Δ)/Δ	a(Δ)/Δ sin B
1930				
Mai 28	337.031°	82.79°	1.44426	+11.80″
30	21.002	124.76	1.44514	11.83
Juni 1	64.974	166.73	1.44598	11.87
3	108.945	208.71	1.44677	11.90
5	152.917	250.68	1.44751	11.93
7	196.888	292.65	1.44821	+11.96
9	240.859	334.62	1.44885	11.99
11	284.831	16.59	1.44944	12.01
13	328.802	58.56	1.44998	12.04
15	12.773	100.53	1.45047	12.06
17	56.744	142.51	1.45090	+12.09
19	100.715	184.48	1.45128	12.11
21	144.687	226.45	1.45160	12.14
23	188.658	268.42	1.45187	12.16
25	232.629	310.39	1.45208	12.18
27	276.600	352.36	1.45223	+12.19
29	320.571	34.33	1.45233	12.21
Juli 1	4.543	76.30	1.45236	12.22
3	48.514	118.27	1.45234	12.24
5	92.485	160.24	1.45227	12.25
7	136.456	202.21	1.45213	+12.26
9	180.427	244.18	1.45194	12.27
11	224.398	286.15	1.45169	12.27
13	268.370	328.12	1.45139	12.27
15	312.341	10.09	1.45103	12.27
17	356.313	52.06	1.45061	+12.27
19	40.284	94.04	1.45014	12.26
21	84.255	136.01	1.44962	12.26
23	128.227	177.98	1.44905	12.26
25	172.198	219.95	1.44842	12.26
27	216.169	261.92	1.44775	+12.25
29	260.140	303.89	1.44702	12.24
31	304.111	345.86	1.44624	12.23
Aug. 2	348.083	27.83	1.44542	12.22
4	32.054	69.81	1.44456	12.20
6	76.025	111.78	1.44365	+12.19
8	119.996	153.75	1.44270	12.17
10	163.967	195.72	1.44170	12.15
12	207.938	237.69	1.44067	12.13
14	251.909	279.66	1.43960	+12.10

MIMAS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1930	°	°		"
Aug. 14	251.909	279.66	1.43960	+12.10
16	295.880	321.63	1.43850	12.07
18	339.852	3.60	1.43736	12.05
20	23.823	45.58	1.43619	12.02
22	67.794	87.55	1.43498	12.00
24	111.765	129.52	1.43375	+11.97
26	155.736	171.49	1.43249	11.95
28	199.707	213.46	1.43120	11.92
30	243.678	255.43	1.42989	11.89
Sept. 1	287.649	297.40	1.42856	11.86
3	331.620	339.37	1.42721	+11.83
5	15.591	21.35	1.42585	11.79
7	59.562	63.32	1.42446	11.76
9	103.533	105.29	1.42306	11.72
11	147.504	147.26	1.42165	11.68
13	191.475	189.23	1.42023	+11.65
15	235.446	231.20	1.41880	11.61
17	279.417	273.17	1.41736	11.57
19	323.388	315.14	1.41592	11.53
21	7.359	357.12	1.41447	11.49
23	51.330	39.09	1.41302	+11.45
25	95.301	81.06	1.41157	11.41
27	139.272	123.03	1.41012	11.37
29	183.243	165.00	1.40867	11.33
Okt. 1	227.214	206.97	1.40723	11.29
3	271.185	248.94	1.40579	+11.25
5	315.156	290.91	1.40437	11.21
7	359.126	332.88	1.40295	11.17
9	43.097	14.85	1.40154	11.13
11	87.068	56.82	1.40014	11.09
13	131.039	98.79	1.39876	+11.05
15	175.010	140.76	1.39739	11.01
17	218.981	182.73	1.39604	10.97
19	262.951	224.70	1.39470	10.93
21	306.922	266.67	1.39338	10.89
23	350.893	308.65	1.39208	+10.85
25	34.864	350.62	1.39081	10.81
27	78.834	32.59	1.38955	10.77
29	122.805	74.56	1.38832	10.74
31	166.776	116.53	1.38711	+10.70

ENCELADUS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1930	°	°		"
März 11	155.446	320.2	1.50090	+13.47
13	320.910	125.0	1.50223	13.50
15	126.375	289.8	1.50356	13.53
17	291.839	94.6	1.50492	13.56
19	97.303	259.4	1.50629	13.59
21	262.767	64.2	1.50768	+13.62
23	68.231	229.0	1.50908	13.65
25	233.696	33.8	1.51050	13.69
27	39.160	198.6	1.51192	13.73
29	204.624	3.4	1.51335	13.77
31	10.089	168.2	1.51479	+13.81
April 2	175.553	333.0	1.51624	13.85
4	341.017	137.8	1.51770	13.89
6	146.481	302.6	1.51915	13.93
8	311.946	107.4	1.52061	13.97
10	117.410	272.2	1.52207	+14.01
12	282.874	76.9	1.52352	14.05
14	88.339	241.7	1.52498	14.09
16	253.803	46.5	1.52643	14.14
18	59.267	211.3	1.52787	14.19
20	224.732	16.1	1.52930	+14.24
22	30.196	180.9	1.53072	14.28
24	195.661	345.7	1.53213	14.33
26	1.125	150.5	1.53353	14.37
28	166.589	315.2	1.53491	14.42
30	332.054	120.0	1.53627	+14.47
Mai 2	137.518	284.8	1.53761	14.52
4	302.982	89.6	1.53893	14.57
6	108.447	254.4	1.54023	14.62
8	273.911	59.2	1.54151	14.67
10	79.376	224.0	1.54275	+14.72
12	244.840	28.8	1.54397	14.77
14	50.304	193.5	1.54516	14.82
16	215.769	358.3	1.54631	14.87
18	21.233	163.1	1.54743	14.91
20	186.697	327.9	1.54852	+14.96
22	352.162	132.7	1.54957	15.00
24	157.626	297.5	1.55058	15.05
26	323.091	102.3	1.55155	15.10
28	128.555	267.1	1.55247	+15.15

ENCELADUS

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1930				
Mai 28	128°.555	267°.1	1.55247	+15″.15
30	294.020	71.8	1.55335	15.19
Juni 1	99.484	236.6	1.55419	15.23
3	264.949	41.4	1.55498	15.27
5	70.413	206.2	1.55572	15.31
7	235.878	11.0	1.55642	+15.35
9	41.342	175.8	1.55706	15.39
11	206.807	340.6	1.55765	15.42
13	12.271	145.4	1.55819	15.45
15	177.736	310.1	1.55868	15.48
17	343.201	114.9	1.55911	+15.51
19	148.666	279.7	1.55949	15.54
21	314.130	84.5	1.55981	15.57
23	119.595	249.3	1.56008	15.60
25	285.059	54.1	1.56029	15.62
27	90.524	218.9	1.56044	+15.64
29	255.988	23.7	1.56054	15.66
Juli 1	61.453	188.4	1.56057	15.68
3	226.917	353.2	1.56055	15.70
5	32.382	158.0	1.56048	15.71
7	197.846	322.8	1.56034	+15.72
9	3.311	127.6	1.56015	15.73
11	168.775	292.4	1.55990	15.74
13	334.240	97.2	1.55960	15.74
15	139.704	262.0	1.55924	15.74
17	305.169	66.7	1.55882	+15.74
19	110.633	231.5	1.55835	15.73
21	276.098	36.3	1.55783	15.73
23	81.562	201.1	1.55726	15.73
25	247.027	5.9	1.55663	15.73
27	52.491	170.7	1.55596	+15.72
29	217.956	335.5	1.55523	15.71
31	23.420	140.3	1.55445	15.69
Aug. 2	188.885	305.0	1.55363	15.67
4	354.349	109.8	1.55277	15.65
6	159.814	274.6	1.55186	+15.63
8	325.278	79.4	1.55091	15.61
10	130.743	244.2	1.54991	15.59
12	296.207	49.0	1.54888	15.56
14	101.672	213.8	1.54781	+15.53

ENCELADUS

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1930				
Aug. 14	101°.672	213°.8	1.54781	+15″.53
16	267.136	18.6	1.54671	15.50
18	72.601	183.4	1.54557	15.47
20	238.066	348.2	1.54440	15.44
22	43.531	153.0	1.54319	15.41
24	208.995	317.8	1.54196	+15.37
26	14.460	122.6	1.54070	15.33
28	179.924	287.4	1.53941	15.29
30	345.389	92.2	1.53810	15.25
Sept. 1	150.853	257.0	1.53677	15.21
3	316.318	61.7	1.53542	+15.17
5	121.783	226.5	1.53406	15.13
7	287.248	31.3	1.53267	15.08
9	92.712	196.1	1.53127	15.03
11	258.177	0.9	1.52986	14.98
13	63.641	165.7	1.52844	+14.94
15	229.106	330.5	1.52701	14.89
17	34.570	135.3	1.52557	14.84
19	200.035	300.0	1.52413	14.79
21	5.499	104.8	1.52268	14.74
23	170.964	269.6	1.52123	+14.69
25	336.428	74.4	1.51978	14.64
27	141.893	239.2	1.51833	14.59
29	307.357	44.0	1.51688	14.54
Okt. 1	112.822	208.8	1.51544	14.49
3	278.286	13.6	1.51400	+14.44
5	83.751	178.3	1.51258	14.39
7	249.215	343.1	1.51116	14.34
9	54.680	147.9	1.50975	14.29
11	220.144	312.7	1.50835	14.24
13	25.609	117.5	1.50697	+14.18
15	191.073	282.3	1.50560	14.13
17	356.538	87.1	1.50425	14.08
19	162.002	251.9	1.50291	14.03
21	327.467	56.6	1.50159	13.98
23	132.931	221.4	1.50029	+13.93
25	298.396	26.2	1.49902	13.88
27	103.860	191.0	1.49776	13.83
29	269.325	355.8	1.49653	13.78
31	74.789	160.6	1.49532	+13.73

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$	0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
		TETHYS					TETHYS		
1930					1930				
März 11	198°.615		1.59359	+16″.69	Mai 28	313°.076		1.64516	+18″.74
13	220.012		1.59492	16.72	30	334.472		1.64604	18.79
15	241.408		1.59625	16.76	Juni 1	355.869		1.64688	18.85
17	262.805		1.59761	16.79	3	17.265		1.64767	18.90
19	284.201		1.59898	16.83	5	38.662		1.64841	18.95
21	305.597		1.60037	+16.87	7	60.058		1.64911	+19.00
23	326.994		1.60177	16.92	9	81.454		1.64975	19.05
25	348.390		1.60319	16.96	11	102.851		1.65034	19.10
27	9.786		1.60461	17.00	13	124.247		1.65088	19.14
29	31.183		1.60604	17.04	15	145.644		1.65137	19.18
31	52.579		1.60748	+17.09	17	167.040		1.65180	+19.22
April 2	73.976		1.60893	17.14	19	188.437		1.65218	19.26
4	95.372		1.61039	17.19	21	209.833		1.65250	19.29
6	116.768		1.61184	17.24	23	231.230		1.65277	19.32
8	138.165		1.61330	17.29	25	252.626		1.65298	19.35
10	159.561		1.61476	+17.34	27	274.023		1.65313	+19.38
12	180.958		1.61621	17.39	29	295.419		1.65323	19.40
14	202.354		1.61767	17.44	Juli 1	316.816		1.65326	19.42
16	223.751		1.61912	17.50	3	338.212		1.65324	19.44
18	245.147		1.62056	17.56	5	359.609		1.65317	19.46
20	266.544		1.62199	+17.62	7	21.005		1.65303	+19.48
22	287.940		1.62341	17.68	9	42.402		1.65284	19.49
24	309.337		1.62482	17.74	11	63.798		1.65259	19.49
26	330.733		1.62622	17.80	13	85.195		1.65229	19.50
28	352.129		1.62760	17.86	15	106.591		1.65193	19.50
30	13.526		1.62896	+17.92	17	127.987		1.65151	+19.49
Mai 2	34.922		1.63030	17.98	19	149.384		1.65104	19.49
4	56.319		1.63162	18.04	21	170.780		1.65052	19.48
6	77.715		1.63292	18.10	23	192.177		1.64995	19.48
8	99.111		1.63420	18.16	25	213.573		1.64932	19.48
10	120.508		1.63544	+18.22	27	234.969		1.64865	+19.47
12	141.904		1.63666	18.28	29	256.366		1.64792	19.46
14	163.301		1.63785	18.34	31	277.762		1.64714	19.44
16	184.697		1.63900	18.40	Aug. 2	299.159		1.64632	19.42
18	206.094		1.64012	18.46	4	320.555		1.64546	19.40
20	227.490		1.64121	+18.52	6	341.952		1.64455	+19.37
22	248.887		1.64226	18.57	8	3.348		1.64360	19.34
24	270.283		1.64327	18.63	10	24.745		1.64260	19.30
26	291.680		1.64424	18.68	12	46.141		1.64157	19.26
28	313.076		1.64516	+18.74	14	67.538		1.64050	+19.22

TETHYS

0h Welt-Zeit	L	M	log $\frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta}$ sin B
1930	°			"
Aug. 14	67.538		1.64050	+19.22
16	88.934		1.63940	19.18
18	110.331		1.63826	19.14
20	131.727		1.63709	19.10
22	153.124		1.63588	19.06
24	174.520		1.63465	+19.02
26	195.917		1.63339	18.98
28	217.313		1.63210	18.93
30	238.710		1.63079	18.88
Sept. 1	260.106		1.62946	18.83
3	281.502		1.62811	+18.78
5	302.899		1.62675	18.72
7	324.295		1.62536	18.67
9	345.692		1.62396	18.61
11	7.088		1.62255	18.55
13	28.484		1.62113	+18.49
15	49.881		1.61970	18.43
17	71.277		1.61826	18.37
19	92.674		1.61682	18.31
21	114.070		1.61537	18.25
23	135.467		1.61392	+18.19
25	156.863		1.61247	18.13
27	178.260		1.61102	18.06
29	199.656		1.60957	17.99
Okt. 1	221.053		1.60813	17.93
3	242.449		1.60669	+17.87
5	263.845		1.60527	17.80
7	285.242		1.60385	17.74
9	306.638		1.60244	17.68
11	328.035		1.60104	17.62
13	349.431		1.59966	+17.56
15	10.827		1.59829	17.49
17	32.224		1.59694	17.43
19	53.620		1.59560	17.37
21	75.017		1.59428	17.31
23	96.413		1.59298	+17.24
25	117.810		1.59171	17.18
27	139.206		1.59045	17.12
29	160.603		1.58922	17.06
31	181.999		1.58801	+17.00

DIONE

0h Welt-Zeit	L	M	log $\frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta}$ sin B
1930	°	°		"
März 11	355.320	127.7	1.70107	+21.37
13	258.389	30.6	1.70240	21.41
15	161.459	293.5	1.70373	21.46
17	64.528	196.4	1.70509	21.50
19	327.598	99.3	1.70646	21.55
21	230.668	2.2	1.70885	+21.60
23	133.738	265.1	1.70925	21.66
25	36.807	168.0	1.71067	21.72
27	299.877	70.9	1.71209	21.78
29	202.946	333.8	1.71352	21.84
31	106.016	236.7	1.71496	+21.90
April 2	9.085	139.6	1.71641	21.96
4	272.155	42.5	1.71787	22.02
6	175.225	305.4	1.71932	22.08
8	78.295	208.3	1.72078	22.15
10	341.364	111.2	1.72224	+22.22
12	244.434	14.1	1.72369	22.29
14	147.503	277.0	1.72515	22.36
16	50.573	179.9	1.72660	22.43
18	313.642	82.8	1.72804	22.50
20	216.712	345.7	1.72947	+22.57
22	119.782	248.6	1.73089	22.64
24	22.852	151.5	1.73230	22.72
26	285.921	54.4	1.73370	22.80
28	188.991	317.3	1.73508	22.87
30	92.060	220.2	1.73644	+22.95
Mai 2	355.130	123.1	1.73778	23.02
4	258.199	26.0	1.73910	23.10
6	161.269	288.9	1.74040	23.18
8	64.339	191.8	1.74168	23.25
10	327.409	94.7	1.74292	+23.33
12	230.478	357.6	1.74414	23.41
14	133.548	260.5	1.74533	23.48
16	36.617	163.4	1.74648	23.56
18	299.687	66.3	1.74760	23.64
20	202.756	329.2	1.74869	+23.71
22	105.826	232.1	1.74974	23.79
24	8.896	135.0	1.75075	23.86
26	271.965	37.9	1.75172	23.93
28	175.035	300.8	1.75264	+24.00

DIONE

0h Welt-Zeit		L	M	log a(Δ)/Δ	a(Δ)/Δ sin B
1930		°	″		″
Mai	28	175.035	300.8	1.75264	+24.00
	30	78.104	203.7	1.75352	24.07
Juni	1	341.174	106.6	1.75436	24.14
	3	244.243	9.5	1.75515	24.21
	5	147.313	272.4	1.75589	24.27
	7	50.382	175.3	1.75659	+24.33
	9	313.452	78.2	1.75723	24.39
	11	216.522	341.1	1.75782	24.44
	13	119.591	244.0	1.75836	24.50
	15	22.661	146.9	1.75985	24.55
	17	285.730	49.8	1.75928	+24.60
	19	188.800	312.7	1.75966	24.65
	21	91.869	215.6	1.75998	24.70
	23	354.939	118.5	1.76025	24.74
	25	258.009	21.4	1.76046	24.78
	27	161.079	284.3	1.76061	+24.82
	29	64.148	187.2	1.76071	24.85
Juli	1	327.218	90.1	1.76074	24.88
	3	230.287	353.0	1.76072	24.91
	5	133.357	255.9	1.76065	24.93
	7	36.426	158.8	1.76051	+24.95
	9	299.496	61.7	1.76032	24.96
	11	202.566	324.6	1.76007	24.96
	13	105.636	227.5	1.75977	24.96
	15	8.705	130.4	1.75941	24.97
	17	271.775	33.3	1.75899	+24.97
	19	174.844	296.2	1.75852	24.96
	21	77.914	199.1	1.75800	24.96
	23	340.983	102.0	1.75743	24.95
	25	244.053	4.9	1.75680	24.95
	27	147.123	267.8	1.75613	+24.94
	29	50.192	170.7	1.75540	24.92
	31	313.262	73.6	1.75462	24.90
Aug.	2	216.331	336.5	1.75380	24.87
	4	119.401	239.4	1.75294	24.84
	6	22.470	142.3	1.75203	+24.80
	8	285.540	45.2	1.75108	24.76
	10	188.609	308.1	1.75008	24.72
	12	91.679	211.0	1.74905	24.67
	14	354.749	113.9	1.74798	+24.62

DIONE

0h Welt-Zeit		L	M	log a(Δ)/Δ	a(Δ)/Δ sin B
1930		°	″		″
Aug.	14	354.749	113.9	1.74798	+24.62
	16	257.818	16.8	1.74688	24.57
	18	160.888	279.7	1.74574	24.52
	20	63.957	182.6	1.74457	24.47
	22	327.027	85.5	1.74336	24.42
	24	230.096	348.4	1.74213	+24.37
	26	133.166	251.3	1.74087	24.31
	28	36.236	154.2	1.73958	24.25
	30	299.306	57.1	1.73827	24.18
Sept.	1	202.375	320.0	1.73694	24.11
	3	105.445	222.9	1.73559	+24.04
	5	8.514	125.8	1.73423	23.97
	7	271.584	28.7	1.73284	23.90
	9	174.653	291.6	1.73144	23.83
	11	77.723	194.5	1.73003	23.76
	13	340.793	97.4	1.72861	+23.69
	15	243.862	0.3	1.72718	23.62
	17	146.932	263.2	1.72574	23.54
	19	50.001	166.1	1.72430	23.46
	21	313.071	69.0	1.72285	23.38
	23	216.140	331.9	1.72140	+23.30
	25	119.210	234.8	1.71995	23.22
	27	22.279	137.7	1.71850	23.14
	29	285.349	40.6	1.71705	23.06
Okt.	1	188.419	303.5	1.71561	22.98
	3	91.488	206.4	1.71417	+22.90
	5	354.558	109.3	1.71275	22.82
	7	257.627	12.2	1.71133	22.74
	9	160.697	275.1	1.70992	22.66
	11	63.766	178.0	1.70852	22.57
	13	326.836	80.9	1.70714	+22.48
	15	229.906	343.8	1.70577	22.40
	17	132.976	246.7	1.70442	22.32
	19	36.045	149.6	1.70308	22.24
	21	299.115	52.5	1.70176	22.16
	23	202.184	315.4	1.70046	+22.08
	25	105.254	218.3	1.69919	22.00
	27	8.323	121.2	1.69793	21.92
	29	271.393	24.1	1.69670	21.84
	31	174.463	287.0	1.69549	+21.76

0h Welt-Zeit	L	M	log $\frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta}$ sin B
		RHEA		
1930				
März 11	277.609°	91.3°	1.84611	+29.83"
13	76.989	250.7	1.84744	29.89
15	236.369	50.1	1.84877	29.96
17	35.749	209.5	1.85013	30.03
19	195.129	8.9	1.85150	30.10
21	354.509	168.3	1.85289	+30.17
23	153.889	327.7	1.85429	30.25
25	313.269	127.1	1.85571	30.33
27	112.649	286.4	1.85713	30.41
29	272.028	85.8	1.85856	30.49
31	71.408	245.2	1.86000	+30.58
April 2	230.788	44.6	1.86145	30.66
4	30.168	204.0	1.86291	30.75
6	189.548	3.4	1.86436	30.84
8	348.928	162.8	1.86582	30.93
10	148.308	322.2	1.86728	+31.02
12	307.688	121.5	1.86873	31.12
14	107.068	280.9	1.87019	31.22
16	266.448	80.3	1.87164	31.32
18	65.828	239.7	1.87308	31.42
20	225.208	39.1	1.87451	+31.52
22	24.588	198.5	1.87593	31.62
24	183.968	357.9	1.87734	31.73
26	343.348	157.3	1.87874	31.83
28	142.728	316.6	1.88012	31.94
30	302.108	116.0	1.88148	+32.04
Mai 2	101.488	275.4	1.88282	32.15
4	260.868	74.8	1.88414	32.26
6	60.248	234.2	1.88544	32.37
8	219.628	33.6	1.88672	32.48
10	19.008	193.0	1.88796	+32.59
12	178.388	352.4	1.88918	32.70
14	337.768	151.7	1.89037	32.80
16	137.147	311.1	1.89152	32.91
18	296.527	110.5	1.89264	33.01
20	95.907	269.9	1.89373	+33.12
22	255.287	69.3	1.89478	33.22
24	54.667	228.7	1.89579	33.32
26	214.047	28.0	1.89676	33.42
28	13.427	187.4	1.89768	+33.52

0h Welt-Zeit	L	M	log $\frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta}$ sin B
		RHEA		
1930				
Mai 28	13.427°	187.4°	1.89768	+33.52"
30	172.807	346.8	1.89856	33.62
Juni 1	332.187	146.2	1.89940	33.71
3	131.567	305.5	1.90019	33.80
5	290.947	104.9	1.90093	33.89
7	90.327	264.3	1.90163	+33.98
9	249.707	63.7	1.90227	34.06
11	49.087	223.1	1.90286	34.14
13	208.467	22.5	1.90340	34.22
15	7.847	181.8	1.90389	34.29
17	167.226	341.2	1.90432	+34.36
19	326.606	140.6	1.90470	34.43
21	125.986	300.0	1.90502	34.49
23	285.366	99.4	1.90529	34.55
25	84.746	258.8	1.90550	34.61
27	244.126	58.2	1.90565	+34.66
29	43.506	217.6	1.90575	34.70
Juli 1	202.886	16.9	1.90578	34.74
3	2.266	176.3	1.90576	34.78
5	161.646	335.7	1.90569	34.81
7	321.026	135.1	1.90555	+34.83
9	120.406	294.5	1.90536	34.85
11	279.786	93.9	1.90511	34.86
13	79.166	253.3	1.90481	34.87
15	238.546	52.7	1.90445	34.88
17	37.926	212.0	1.90403	+34.88
19	197.305	11.4	1.90356	34.88
21	356.685	170.8	1.90304	34.87
23	156.065	330.2	1.90247	34.86
25	315.445	129.6	1.90184	34.84
27	114.825	289.0	1.90117	+34.81
29	274.205	88.4	1.90044	34.78
31	73.585	247.8	1.89966	34.75
Aug. 2	232.965	47.1	1.89884	34.71
4	32.345	206.5	1.89798	34.67
6	191.725	5.9	1.89707	+34.62
8	351.105	165.3	1.89612	34.57
10	150.485	324.7	1.89512	34.52
12	309.865	124.1	1.89409	34.46
14	109.245	283.5	1.89302	+34.39

RHEA

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1930				
Aug. 14	109.245	283.5	1.89302	+34.39
16	268.625	82.9	1.89192	34.33
18	68.005	242.2	1.89078	34.26
20	227.384	41.6	1.88961	34.18
22	26.764	201.0	1.88840	34.10
24	186.144	0.4	1.88717	+34.02
26	345.524	159.8	1.88591	33.94
28	144.904	319.2	1.88462	33.85
30	304.284	118.6	1.88331	33.76
Sept. 1	103.664	278.0	1.88198	33.67
3	263.044	77.3	1.88063	+33.58
5	62.424	236.7	1.87927	33.48
7	221.804	36.1	1.87788	33.38
9	21.184	195.5	1.87648	33.28
11	180.564	354.9	1.87507	33.18
13	339.944	154.3	1.87365	+33.08
15	139.324	313.7	1.87222	32.97
17	298.704	113.1	1.87078	32.86
19	98.084	272.4	1.86934	32.75
21	257.463	71.8	1.86789	32.64
23	56.843	231.2	1.86644	+32.53
25	216.223	30.6	1.86499	32.42
27	15.603	190.0	1.86354	32.31
29	174.983	349.4	1.86209	32.20
Okt. 1	334.363	148.8	1.86065	32.09
3	133.743	308.2	1.85921	+31.98
5	293.123	107.5	1.85779	31.86
7	92.503	266.9	1.85637	31.75
9	251.883	66.3	1.85496	31.63
11	51.263	225.7	1.85356	31.52
13	210.643	25.1	1.85218	+31.40
15	10.023	184.5	1.85081	31.28
17	169.403	343.9	1.84946	31.17
19	328.783	143.3	1.84812	31.06
21	128.163	302.6	1.84680	30.95
23	287.542	102.0	1.84550	+30.84
25	86.922	261.4	1.84423	30.73
27	246.302	60.8	1.84297	30.62
29	45.682	220.2	1.84174	30.51
31	205.062	19.6	1.84053	+30.40

TITAN

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1930				
März 11	332.18	159.8	2.21126	+69.15
13	17.34	204.9	2.21259	69.30
15	62.49	250.1	2.21392	69.45
17	107.64	295.2	2.21528	69.61
19	152.80	340.4	2.21665	69.78
21	197.95	25.5	2.21804	+69.95
23	243.11	70.7	2.21944	70.12
25	288.26	115.8	2.22086	70.30
27	333.41	161.0	2.22228	70.49
29	18.57	206.1	2.22371	70.68
31	63.72	251.3	2.22515	+70.88
April 2	108.87	296.4	2.22660	71.08
4	154.03	341.6	2.22806	71.28
6	199.18	26.7	2.22951	71.49
8	244.34	71.9	2.23097	71.70
10	289.49	117.0	2.23243	+71.92
12	334.64	162.2	2.23388	72.14
14	19.80	207.3	2.23534	72.37
16	64.95	252.5	2.23679	72.60
18	110.10	297.6	2.23823	72.83
20	155.26	342.8	2.23966	+73.07
22	200.41	27.9	2.24108	73.31
24	245.57	73.1	2.24249	73.55
26	290.72	118.2	2.24389	73.79
28	335.87	163.4	2.24527	74.04
30	21.03	208.5	2.24663	+74.29
Mai 2	66.18	253.7	2.24797	74.54
4	111.33	298.8	2.24929	74.79
6	156.49	344.0	2.25059	75.04
8	201.64	29.1	2.25187	75.29
10	246.80	74.3	2.25311	+75.54
12	291.95	119.4	2.25433	75.79
14	337.10	164.6	2.25552	76.04
16	22.26	209.7	2.25667	76.29
18	67.41	254.9	2.25779	76.53
20	112.56	300.0	2.25888	+76.77
22	157.72	345.2	2.25993	77.01
24	202.87	30.3	2.26094	77.25
26	248.03	75.5	2.26191	77.48
28	293.18	120.6	2.26283	+77.71

TITAN

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1930				
Mai 28	293°18	120°6	2.26283	+77"71
30	338.33	165.8	2.26371	77.93
Juni 1	23.49	210.9	2.26455	78.15
3	68.64	256.1	2.26534	78.36
5	113.79	301.2	2.26608	78.57
7	158.95	346.4	2.26678	+78.77
9	204.10	31.5	2.26742	78.97
11	249.26	76.7	2.26801	79.16
13	294.41	121.8	2.26855	79.34
15	339.56	167.0	2.26904	79.50
17	24.72	212.1	2.26947	+79.66
19	69.87	257.3	2.26985	79.81
21	115.02	302.4	2.27017	79.95
23	160.18	347.6	2.27044	80.09
25	205.33	32.7	2.27065	80.22
27	250.49	77.9	2.27080	+80.34
29	295.64	123.0	2.27090	80.44
Juli 1	340.79	168.2	2.27093	80.53
3	25.95	213.3	2.27091	80.61
5	71.10	258.5	2.27084	80.68
7	116.25	303.6	2.27070	+80.74
9	161.41	348.8	2.27051	80.79
11	206.56	33.9	2.27026	80.83
13	251.72	79.1	2.26996	80.86
15	296.87	124.2	2.26960	80.87
17	342.03	169.4	2.26918	+80.87
19	27.18	214.5	2.26871	80.86
21	72.34	259.7	2.26819	80.84
23	117.49	304.8	2.26762	80.80
25	162.65	350.0	2.26699	80.76
27	207.80	35.1	2.26632	+80.71
29	252.96	80.3	2.26559	80.64
31	298.11	125.4	2.26481	80.56
Aug. 2	343.26	170.6	2.26399	80.47
4	28.42	215.7	2.26313	80.37
6	73.57	260.9	2.26222	+80.26
8	118.72	306.0	2.26127	80.14
10	163.88	351.2	2.26027	80.02
12	209.03	36.3	2.25924	79.88
14	254.19	81.5	2.25817	+79.73

TITAN

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1930				
Aug. 14	254°19	81°5	2.25817	+79"73
16	299.34	126.6	2.25707	79.58
18	344.49	171.8	2.25593	79.42
20	29.65	216.9	2.25476	79.25
22	74.80	262.1	2.25355	79.07
24	119.95	307.2	2.25232	+78.88
26	165.11	352.4	2.25106	78.69
28	210.26	37.5	2.24977	78.49
30	255.42	82.7	2.24846	78.28
Sept. 1	300.57	127.8	2.24713	78.06
3	345.72	173.0	2.24578	+77.84
5	30.88	218.1	2.24442	77.61
7	76.03	263.3	2.24303	77.38
9	121.18	308.4	2.24163	77.15
11	166.34	353.6	2.24022	76.91
13	211.49	38.7	2.23880	+76.67
15	256.65	83.9	2.23737	76.43
17	301.80	129.0	2.23593	76.18
19	346.95	174.2	2.23449	75.93
21	32.11	219.3	2.23304	75.68
23	77.26	264.5	2.23159	+75.42
25	122.41	309.6	2.23014	75.16
27	167.57	354.8	2.22869	74.90
29	212.72	40.0	2.22724	74.64
Okt. 1	257.88	85.1	2.22580	74.38
3	303.03	130.3	2.22436	+74.12
5	348.18	175.5	2.22294	73.85
7	33.34	220.6	2.22152	73.58
9	78.49	265.8	2.22011	73.32
11	123.64	310.9	2.21871	73.05
13	168.80	356.1	2.21733	+72.79
15	213.95	41.2	2.21596	72.52
17	259.11	86.4	2.21461	72.26
19	304.26	131.5	2.21327	72.00
21	349.41	176.7	2.21195	71.74
23	34.57	221.8	2.21065	+71.48
25	79.72	267.0	2.20938	71.23
27	124.87	312.1	2.20812	70.97
29	170.03	357.3	2.20689	70.72
31	215.18	42.4	2.20568	+70.47

Bewegung der mittleren Länge L und der mittleren Anomalie M

Zeit	Mimas		Enceladus		Tethys	Dione		Rhea		Titan	
	L	M	L	M	L	L	M	L	M	L	M
1^{d}	381.986	380.99	262.732	262.4	190.698	131.535	131.5	79.690	79.7	22.58	22.6
1^{h}	15.916	15.87	10.947	10.9	7.946	5.481	5.5	3.320	3.3	0.94	0.9
2	31.832	31.75	21.894	21.9	15.892	10.961	11.0	6.641	6.6	1.88	1.9
3	47.748	47.62	32.842	32.8	23.838	16.442	16.4	9.961	10.0	2.82	2.8
4	63.664	63.50	43.789	43.7	31.783	21.923	21.9	13.282	13.3	3.76	3.8
5	79.581	79.37	54.736	54.7	39.729	27.403	27.4	16.602	16.6	4.70	4.7
6	95.497	95.25	65.683	65.6	47.675	32.884	32.9	19.923	19.9	5.64	5.7
7	111.413	111.12	76.630	76.5	55.621	38.364	38.4	23.243	23.2	6.59	6.6
8	127.329	127.00	87.577	87.5	63.566	43.845	43.8	26.564	26.6	7.53	7.5
9	143.245	142.87	98.525	98.4	71.512	49.326	49.3	29.884	29.9	8.47	8.5
10	159.161	158.75	109.472	109.3	79.458	54.806	54.8	33.205	33.2	9.41	9.4
11	175.077	174.62	120.419	120.3	87.403	60.287	60.3	36.525	36.5	10.35	10.4
12	190.993	190.50	131.366	131.2	95.349	65.767	65.7	39.845	39.8	11.29	11.3
13	206.910	206.37	142.313	142.1	103.295	71.248	71.2	43.166	43.2	12.23	12.2
14	222.826	222.24	153.260	153.1	111.241	76.729	76.7	46.486	46.5	13.17	13.2
15	238.742	238.12	164.207	164.0	119.186	82.209	82.2	49.806	49.8	14.11	14.1
16	254.658	253.99	175.154	174.9	127.132	87.690	87.7	53.127	53.1	15.05	15.1
17	270.574	269.86	186.101	185.9	135.078	93.171	93.1	56.447	56.5	15.99	16.0
18	286.490	285.74	197.048	196.8	143.024	98.651	98.6	59.768	59.8	16.93	17.0
19	302.406	301.61	207.996	207.7	150.970	104.132	104.1	63.088	63.1	17.88	17.9
20	318.322	317.49	218.943	218.7	158.916	109.613	109.6	66.409	66.4	18.82	18.8
21	334.238	333.36	229.890	229.6	166.861	115.093	115.1	69.729	69.7	19.76	19.8
22	350.154	349.24	240.837	240.5	174.806	120.574	120.5	73.050	73.1	20.70	20.7
23	366.070	365.12	251.785	251.5	182.752	126.054	126.0	76.370	76.4	21.64	21.7
1^{m}	0.265	0.26	0.182	0.2	0.132	0.091	0.1	0.055	0.0	0.02	0.0
2	0.531	0.53	0.365	0.4	0.265	0.183	0.2	0.111	0.1	0.03	0.0
3	0.796	0.79	0.547	0.5	0.397	0.274	0.3	0.166	0.1	0.05	0.0
4	1.061	1.06	0.730	0.7	0.530	0.365	0.4	0.221	0.2	0.06	0.1
5	1.326	1.32	0.912	0.9	0.662	0.457	0.5	0.277	0.2	0.08	0.1
6	1.592	1.58	1.095	1.1	0.795	0.548	0.5	0.332	0.3	0.09	0.1
7	1.857	1.85	1.278	1.3	0.927	0.640	0.6	0.387	0.3	0.11	0.1
8	2.122	2.11	1.460	1.4	1.060	0.731	0.7	0.442	0.4	0.13	0.1
9	2.388	2.38	1.642	1.6	1.192	0.822	0.8	0.497	0.4	0.14	0.1
10	2.653	2.64	1.825	1.8	1.324	0.914	0.9	0.553	0.5	0.16	0.2
20	5.305	5.29	3.649	3.6	2.649	1.827	1.8	1.107	1.1	0.31	0.3
30	7.958	7.93	5.474	5.4	3.973	2.740	2.7	1.660	1.6	0.47	0.5
40	10.611	10.58	7.298	7.3	5.297	3.654	3.7	2.214	2.2	0.63	0.6
50	13.263	13.22	9.123	9.1	6.622	4.567	4.6	2.767	2.7	0.78	0.8
10^{s}	0.044	0.04	0.030	0.0	0.022	0.015	0.0	0.009	0.0	0.00	0.0
20	0.088	0.09	0.061	0.1	0.044	0.030	0.0	0.018	0.0	0.01	0.0
30	0.133	0.13	0.091	0.1	0.066	0.046	0.0	0.028	0.0	0.01	0.0
40	0.177	0.17	0.122	0.1	0.088	0.061	0.1	0.037	0.0	0.01	0.0
50	0.221	0.22	0.152	0.2	0.110	0.076	0.1	0.046	0.0	0.01	0.0

M	Mimas		Enceladus		Dione		Rhea		M
	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	
0°	0.000°	9.99167	0.000°	9.99800	0.000°	9.99913	0.000°	9.99961	360°
2	0.078	9.99167	0.018	9.99800	0.008	9.99913	0.004	9.99961	358
4	0.156	9.99169	0.037	9.99800	0.016	9.99913	0.007	9.99961	356
6	0.233	9.99172	0.055	9.99801	0.024	9.99913	0.011	9.99961	354
8	0.310	9.99175	0.074	9.99802	0.032	9.99914	0.014	9.99961	352
10	0.387	9.99180	0.092	9.99803	0.040	9.99914	0.018	9.99961	350
12	0.463	9.99186	0.110	9.99804	0.048	9.99915	0.021	9.99962	348
14	0.539	9.99193	0.128	9.99806	0.056	9.99916	0.025	9.99962	346
16	0.614	9.99201	0.146	9.99808	0.063	9.99916	0.028	9.99962	344
18	0.688	9.99210	0.164	9.99810	0.071	9.99917	0.032	9.99963	342
20	0.762	9.99220	0.181	9.99812	0.079	9.99918	0.035	9.99963	340
22	0.834	9.99230	0.199	9.99814	0.086	9.99919	0.039	9.99964	338
24	0.905	9.99242	0.216	9.99817	0.093	9.99921	0.042	9.99964	336
26	0.975	9.99255	0.232	9.99820	0.101	9.99922	0.045	9.99965	334
28	1.044	9.99269	0.249	9.99823	0.108	9.99923	0.048	9.99966	332
30	1.111	9.99284	0.265	9.99827	0.115	9.99925	0.052	9.99966	330
32	1.177	9.99299	0.281	9.99830	0.122	9.99926	0.055	9.99967	328
34	1.242	9.99316	0.296	9.99834	0.128	9.99928	0.058	9.99968	326
36	1.305	9.99333	0.311	9.99838	0.135	9.99930	0.061	9.99968	324
38	1.366	9.99351	0.326	9.99842	0.141	9.99931	0.064	9.99969	322
40	1.425	9.99370	0.340	9.99847	0.148	9.99933	0.066	9.99970	320
42	1.483	9.99390	0.354	9.99852	0.154	9.99935	0.069	9.99971	318
44	1.538	9.99410	0.368	9.99856	0.159	9.99937	0.072	9.99972	316
46	1.592	9.99431	0.381	9.99861	0.165	9.99940	0.074	9.99973	314
48	1.644	9.99453	0.393	9.99866	0.171	9.99942	0.077	9.99974	312
50	1.693	9.99476	0.405	9.99872	0.176	9.99944	0.079	9.99975	310
52	1.741	9.99499	0.417	9.99877	0.181	9.99947	0.081	9.99976	308
54	1.786	9.99523	0.428	9.99883	0.186	9.99949	0.083	9.99977	306
56	1.829	9.99547	0.438	9.99889	0.190	9.99951	0.085	9.99978	304
58	1.870	9.99572	0.448	9.99895	0.195	9.99954	0.087	9.99979	302
60	1.908	9.99598	0.458	9.99901	0.199	9.99957	0.089	9.99980	300
62	1.944	9.99623	0.467	9.99907	0.203	9.99959	0.091	9.99982	298
64	1.977	9.99650	0.475	9.99913	0.206	9.99962	0.093	9.99983	296
66	2.008	9.99676	0.483	9.99919	0.210	9.99965	0.094	9.99984	294
68	2.036	9.99704	0.490	9.99926	0.213	9.99967	0.096	9.99985	292
70	2.062	9.99731	0.496	9.99932	0.216	9.99970	0.097	9.99987	290
72	2.086	9.99759	0.502	9.99939	0.218	9.99973	0.098	9.99988	288
74	2.106	9.99787	0.508	9.99946	0.220	9.99976	0.099	9.99989	286
76	2.124	9.99815	0.512	9.99952	0.222	9.99979	0.100	9.99991	284
78	2.140	9.99843	0.516	9.99959	0.224	9.99982	0.101	9.99992	282
80	2.153	9.99872	0.520	9.99966	0.226	9.99985	0.102	9.99993	280
82	2.163	9.99900	0.523	9.99973	0.227	9.99988	0.102	9.99995	278
84	2.170	9.99929	0.525	9.99980	0.228	9.99991	0.103	9.99996	276
86	2.175	9.99958	0.526	9.99987	0.229	9.99994	0.103	9.99997	274
88	2.177	9.99987	0.527	9.99994	0.229	9.99997	0.103	9.99999	272
90	2.177	0.00016	0.527	0.00001	0.229	0.00000	0.103	0.00000	270

M	Mimas $\pm(v-M)$	Mimas $\log\frac{r}{a}$	Enceladus $\pm(v-M)$	Enceladus $\log\frac{r}{a}$	Dione $\pm(v-M)$	Dione $\log\frac{r}{a}$	Rhea $\pm(v-M)$	Rhea $\log\frac{r}{a}$	M
90°	2.177	0.00016	0.527	0.00001	0.229	0.00000	0.103	0.00000	270°
92	2.174	0.00044	0.527	0.00008	0.229	0.00003	0.103	0.00001	268
94	2.168	0.00073	0.526	0.00015	0.229	0.00006	0.103	0.00003	266
96	2.159	0.00101	0.524	0.00022	0.228	0.00009	0.103	0.00004	264
98	2.148	0.00130	0.522	0.00029	0.227	0.00012	0.102	0.00005	262
100	2.135	0.00158	0.519	0.00035	0.226	0.00015	0.102	0.00007	260
102	2.119	0.00186	0.515	0.00042	0.224	0.00018	0.101	0.00008	258
104	2.100	0.00214	0.511	0.00049	0.222	0.00021	0.100	0.00009	256
106	2.079	0.00241	0.506	0.00056	0.220	0.00024	0.099	0.00011	254
108	2.055	0.00268	0.500	0.00062	0.218	0.00027	0.098	0.00012	252
110	2.029	0.00295	0.494	0.00069	0.215	0.00030	0.097	0.00013	250
112	2.000	0.00321	0.488	0.00075	0.212	0.00033	0.096	0.00015	248
114	1.969	0.00347	0.481	0.00082	0.209	0.00035	0.094	0.00016	246
116	1.936	0.00373	0.473	0.00088	0.206	0.00038	0.093	0.00017	244
118	1.901	0.00398	0.464	0.00094	0.202	0.00041	0.091	0.00018	242
120	1.863	0.00422	0.455	0.00100	0.198	0.00044	0.089	0.00019	240
122	1.823	0.00446	0.446	0.00106	0.194	0.00046	0.087	0.00021	238
124	1.781	0.00469	0.436	0.00112	0.190	0.00049	0.085	0.00022	236
126	1.737	0.00492	0.425	0.00118	0.185	0.00051	0.083	0.00023	234
128	1.691	0.00514	0.414	0.00123	0.180	0.00053	0.081	0.00024	232
130	1.643	0.00536	0.402	0.00129	0.175	0.00056	0.079	0.00025	230
132	1.593	0.00557	0.390	0.00134	0.170	0.00058	0.077	0.00026	228
134	1.541	0.00577	0.378	0.00139	0.164	0.00060	0.074	0.00027	226
136	1.487	0.00597	0.365	0.00144	0.159	0.00062	0.072	0.00028	224
138	1.431	0.00616	0.351	0.00148	0.153	0.00065	0.069	0.00029	222
140	1.374	0.00634	0.337	0.00153	0.147	0.00067	0.066	0.00030	220
142	1.316	0.00651	0.323	0.00157	0.141	0.00068	0.064	0.00031	218
144	1.256	0.00668	0.308	0.00162	0.134	0.00070	0.061	0.00032	216
146	1.194	0.00683	0.293	0.00166	0.128	0.00072	0.058	0.00032	214
148	1.131	0.00698	0.278	0.00169	0.121	0.00074	0.055	0.00033	212
150	1.067	0.00713	0.262	0.00173	0.114	0.00075	0.052	0.00034	210
152	1.001	0.00726	0.246	0.00176	0.107	0.00077	0.048	0.00034	208
154	0.934	0.00738	0.230	0.00179	0.100	0.00078	0.045	0.00035	206
156	0.867	0.00750	0.213	0.00182	0.093	0.00079	0.042	0.00036	204
158	0.798	0.00760	0.196	0.00185	0.086	0.00080	0.039	0.00036	202
160	0.728	0.00770	0.179	0.00187	0.078	0.00081	0.035	0.00037	200
162	0.658	0.00779	0.162	0.00190	0.071	0.00082	0.032	0.00037	198
164	0.587	0.00787	0.144	0.00192	0.063	0.00083	0.028	0.00037	196
166	0.515	0.00794	0.127	0.00193	0.055	0.00084	0.025	0.00038	194
168	0.442	0.00800	0.109	0.00195	0.048	0.00085	0.021	0.00038	192
170	0.369	0.00805	0.091	0.00196	0.040	0.00085	0.018	0.00038	190
172	0.296	0.00810	0.073	0.00197	0.032	0.00086	0.014	0.00039	188
174	0.222	0.00813	0.055	0.00198	0.024	0.00086	0.011	0.00039	186
176	0.148	0.00815	0.037	0.00199	0.016	0.00086	0.007	0.00039	184
178	0.074	0.00817	0.018	0.00199	0.008	0.00087	0.004	0.00039	182
180	0.000	0.00817	0.000	0.00199	0.000	0.00087	0.000	0.00039	180

0h Welt-Zeit	ϑ Mimas	ϑ Encel.	ϑ Tethys	ϑ Dione	ϑ Rhea	γ Rhea	N Saturnsring	J Saturnsring	ω Saturnsring
1930									
Jan. −2	164°.7	100°.1	270°.2	326°.5	328°.6	20°.05	127°.625	6°.796	42°.019
+14	148.7	93.4	267.0	325.1	328.1	20.06	127.627	6.796	42.018
30	132.7	86.7	263.8	323.7	327.7	20.07	127.629	6.796	42.017
Febr. 15	116.7	79.9	260.6	322.4	327.3	20.09	127.631	6.796	42.016
März 3	100.6	73.3	257.4	321.0	326.8	20.10	127.633	6.795	42.014
19	84.6	66.6	254.3	319.7	326.3	20.11	127.634	6.795	42.013
April 4	68.6	59.9	251.1	318.3	325.9	20.13	127.636	6.795	42.012
20	52.6	53.3	247.9	316.9	325.4	20.14	127.638	6.795	42.010
Mai 6	36.6	46.5	244.7	315.6	325.0	20.16	127.640	6.795	42.009
22	20.6	39.8	241.6	314.2	324.5	20.17	127.642	6.794	42.008
Juni 7	4.6	33.2	238.4	312.9	324.1	20.18	127.643	6.794	42.007
23	348.6	26.5	235.2	311.5	323.6	20.20	127.645	6.794	42.006
Juli 9	332.6	19.8	232.0	310.1	323.1	20.21	127.647	6.794	42.004
25	316.6	13.1	228.9	308.8	322.7	20.23	127.649	6.794	42.003
Aug. 10	300.6	6.4	225.7	307.4	322.2	20.24	127.651	6.793	42.002
26	284.6	359.7	222.5	306.1	321.7	20.25	127.653	6.793	42.000
Sept. 11	268.6	353.0	219.3	304.7	321.3	20.27	127.654	6.793	41.999
27	252.6	346.3	216.1	303.3	320.8	20.28	127.656	6.793	41.998
Okt. 13	236.6	339.7	213.0	302.0	320.4	20.30	127.658	6.793	41.997
29	220.6	333.0	209.8	300.6	319.9	20.31	127.660	6.793	41.995
Nov. 14	204.6	326.3	206.6	299.3	319.5	20.32	127.662	6.792	41.994
30	188.6	319.6	203.4	297.9	319.0	20.34	127.663	6.792	41.993
Dez. 16	172.6	312.9	200.2	296.5	318.6	20.35	127.665	6.792	41.992
32	156.6	306.2	197.1	295.2	318.1	20.37	127.667	6.792	41.990

$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale

u − U	u − U	Mimas	Encel.	Tethys	Dione	Rhea	u − U	u − U
0°	360°	−6+	−7+	−9+	−11+	−16+	180°	180°
10	350	−6+	−7+	−9+	−11+	−16+	170	190
20	340	−5+	−7+	−8+	−11+	−15+	160	200
30	330	−5+	−6+	−8+	−10+	−14+	150	210
40	320	−4+	−6+	−7+	− 9+	−12+	140	220
50	310	−3+	−5+	−6+	− 8+	−10+	130	230
60	300	−3+	−4+	−4+	− 6+	− 8+	120	240
70	290	−2+	−3+	−3+	− 4+	− 6+	110	250
80	280	−1+	−1+	−2+	− 2+	− 3+	100	260
90	270	0	0	0	0	0	90	270

0h Welt-Zeit	HYPERION U		HYPERION B		HYPERION P	
1930	°		°		°	
März 11	153.016	137	+25.356	23	+6.227	7
13	153.153	131	25.333	23	6.234	7
15	153.284	125	25.310	21	6.241	7
17	153.409	119	25.289	20	6.248	6
19	153.528	113	25.269	19	6.254	6
21	153.641	106	+25.250	19	+6.260	5
23	153.747	99	25.231	18	6.265	5
25	153.846	93	25.213	16	6.270	5
27	153.939	86	25.197	15	6.275	4
29	154.025	79	25.182	14	6.279	4
31	154.104	73	+25.168	13	+6.283	4
April 2	154.177	66	25.155	12	6.287	4
4	154.243	58	25.143	11	6.291	3
6	154.301	51	25.132	9	6.294	3
8	154.352	45	25.123	8	6.297	2
10	154.397	38	+25.115	7	+6.299	2
12	154.435	31	25.108	6	6.301	1
14	154.466	23	25.102	4	6.302	1
16	154.489	16	25.098	3	6.303	1
18	154.505	9	25.095	1	6.304	1
20	154.514	2	+25.094	0	+6.305	0
22	154.516	5	25.094	1	6.305	0
24	154.511	12	25.095	2	6.305	1
26	154.499	19	25.097	4	6.304	1
28	154.480	27	25.101	5	6.303	1
30	154.453	33	+25.106	7	+6.302	1
Mai 2	154.420	40	25.113	8	6.301	2
4	154.380	47	25.121	9	6.299	2
6	154.333	54	25.130	10	6.297	3
8	154.279	60	25.140	12	6.294	3
10	154.219	66	+25.152	13	+6.291	3
12	154.153	73	25.165	14	6.288	3
14	154.080	79	25.179	15	6.285	4
16	154.001	85	25.194	16	6.281	4
18	153.916	91	25.210	17	6.277	4
20	153.825	97	+25.227	18	+6.273	5
22	153.728	102	25.245	19	6.268	5
24	153.626	108	25.264	20	6.263	5
26	153.518	113	25.284	21	6.258	6
28	153.405		+25.305		+6.252	

0h Welt-Zeit	HYPERION U		HYPERION B		HYPERION P	
1930	°		°		°	
Mai 28	153.405	118	+25.305	22	+6.252	6
30	153.287	123	25.327	23	6.246	6
Juni 1	153.164	127	25.350	23	6.240	7
3	153.037	131	25.373	24	6.233	7
5	152.906	135	25.397	25	6.226	7
7	152.771	139	+25.422	25	+6.219	7
9	152.632	142	25.447	26	6.212	7
11	152.490	146	25.473	26	6.205	8
13	152.344	149	25.499	27	6.197	8
15	152.195	151	25.526	27	6.189	8
17	152.044	154	+25.553	27	+6.181	8
19	151.890	156	25.580	28	6.173	8
21	151.734	157	25.608	28	6.165	9
23	151.577	159	25.636	28	6.156	8
25	151.418	160	25.664	28	6.148	9
27	151.258	161	+25.692	28	+6.139	9
29	151.097	161	25.720	28	6.130	9
Juli 1	150.936	162	25.748	28	6.121	9
3	150.774	161	25.776	28	6.112	9
5	150.613	160	25.804	28	6.103	9
7	150.453	159	+25.832	27	+6.094	9
9	150.294	158	25.859	27	6.085	9
11	150.136	156	25.886	27	6.076	9
13	149.980	155	25.913	26	6.067	9
15	149.825	153	25.939	26	6.058	9
17	149.672	150	+25.965	26	+6.049	9
19	149.522	147	25.991	25	6.040	9
21	149.375	144	26.016	24	6.031	8
23	149.231	141	26.040	24	6.023	8
25	149.090	137	26.064	23	6.015	8
27	148.953	133	+26.087	23	+6.007	8
29	148.820	129	26.110	22	5.999	8
31	148.691	125	26.132	21	5.991	7
Aug. 2	148.566	120	26.153	21	5.984	7
4	148.446	115	26.174	20	5.977	7
6	148.331	110	+26.194	19	+5.970	7
8	148.221	104	26.213	18	5.963	7
10	148.117	99	26.231	18	5.956	6
12	148.018	93	26.249	17	5.950	6
14	147.925		+26.266		+5.944	

0h Welt-Zeit	HYPERION U		HYPERION B		HYPERION P		0h Welt-Zeit	JAPETUS U		JAPETUS B		JAPETUS P	
1930	°		°		°		1930	°		°		°	
Aug. 14	147.925	87	+26.266	16	+5.944	5	März 11	232.901	125	+10.927	30	+9.381	28
16	147.838	82	26.282	15	5.939	5	13	233.026	120	10.897	29	9.353	27
18	147.756	75	26.297	14	5.934	4	15	233.146	114	10.868	28	9.326	25
20	147.681	69	26.311	13	5.930	4	17	233.260	108	10.840	26	9.301	24
22	147.612	62	26.324	13	5.926	4	19	233.368	102	10.814	25	9.277	23
24	147.550	55	+26.337	12	+5.922	3	21	233.470	96	+10.789	23	+9.254	22
26	147.495	48	26.349	11	5.919	2	23	233.566	91	10.766	22	9.232	21
28	147.447	42	26.360	10	5.917	2	25	233.657	85	10.744	21	9.211	19
30	147.405	34	26.370	9	5.915	2	27	233.742	79	10.723	19	9.192	18
Sept. 1	147.371	28	26.379	8	5.913	2	29	233.821	72	10.704	18	9.174	16
3	147.343	20	+26.387	8	+5.911	1	31	233.893	66	+10.686	16	+9.158	15
5	147.323	13	26.395	7	5.910	1	April 2	233.959	60	10.670	15	9.143	14
7	147.310	6	26.402	5	5.909	0	4	234.019	54	10.655	13	9.129	12
9	147.304	1	26.407	4	5.909	0	6	234.073	47	10.642	12	9.117	11
11	147.305	8	26.411	3	5.909	1	8	234.120	41	10.630	10	9.106	9
13	147.313	16	+26.414	3	+5.910	1	10	234.161	34	+10.620	8	+9.097	8
15	147.329	23	26.417	2	5.911	2	12	234.195	28	10.612	7	9.089	6
17	147.352	30	26.419	0	5.913	2	14	234.223	21	10.605	5	9.083	5
19	147.382	37	26.419	1	5.915	3	16	234.244	15	10.600	4	9.078	3
21	147.419	44	26.418	1	5.918	3	18	234.259	8	10.596	2	9.075	2
23	147.463	52	+26.417	2	+5.921	4	20	234.267	2	+10.594	0	+9.073	0
25	147.515	59	26.415	3	5.925	4	22	234.269	5	10.594	1	9.073	1
27	147.574	66	26.412	4	5.929	5	24	234.264	11	10.595	3	9.074	2
29	147.640	73	26.408	5	5.934	5	26	234.253	17	10.598	4	9.076	4
Okt. 1	147.713	80	26.403	6	5.939	5	28	234.236	24	10.602	6	9.080	5
3	147.793	86	+26.397	8	+5.944	6	30	234.212	30	+10.608	7	+9.085	7
5	147.879	93	26.389	8	5.950	6	Mai 2	234.182	36	10.615	9	9.092	8
7	147.972	100	26.381	9	5.956	7	4	234.146	43	10.624	11	9.100	9
9	148.072	107	26.372	10	5.963	7	6	234.103	49	10.635	13	9.109	11
11	148.179	113	26.362	12	5.970	7	8	234.054	54	10.648	14	9.120	13
13	148.292	120	+26.350	12	+5.977	8	10	234.000	60	+10.662	16	+9.133	14
15	148.412	126	26.338	13	5.985	8	12	233.940	66	10.678	17	9.147	15
17	148.538	132	26.325	14	5.993	8	14	233.874	72	10.695	18	9.162	17
19	148.670	138	26.311	15	6.001	9	16	233.802	77	10.713	20	9.179	18
21	148.808	144	26.296	16	6.010	9	18	233.725	82	10.733	22	9.197	19
23	148.952	150	+26.280	17	+6.019	9	20	233.643	88	+10.755	23	+9.216	20
25	149.102	156	26.263	18	6.028	10	22	233.555	93	10.778	24	9.236	21
27	149.258	161	26.245	20	6.038	10	24	233.462	98	10.802	25	9.257	22
29	149.419	167	26.225	21	6.048	10	26	233.364	103	10.827	26	9.279	23
31	149.586		+26.204		+6.058		28	233.261		+10.853		+9.302	

0h Welt-Zeit	JAPETUS					
	U		B		P	
1930						
Mai 28	233°.261	107	+10°.853	27	+ 9°.302	24
30	233.154	112	10.880	28	9.326	25
Juni 1	233.042	115	10.908	29	9.351	26
3	232.927	119	10.937	31	9.377	27
5	232.808	123	10.968	31	9.404	28
7	232.685	126	+10.999	32	+ 9.432	28
9	232.559	129	11.031	33	9.460	29
11	232.430	132	11.064	34	9.489	30
13	232.298	135	11.098	35	9.519	30
15	232.163	137	11.133	35	9.549	30
17	232.026	139	+11.168	36	+ 9.579	31
19	231.887	141	11.204	36	9.610	31
21	231.746	143	11.240	36	9.641	32
23	231.603	144	11.276	37	9.673	32
25	231.459	145	11.313	37	9.705	32
27	231.314	145	+11.350	37	+ 9.737	32
29	231.169	146	11.387	37	9.769	32
Juli 1	231.023	146	11.424	37	9.801	32
3	230.877	145	11.461	37	9.833	32
5	230.732	145	11.498	37	9.865	32
7	230.587	144	+11.535	37	+ 9.897	31
9	230.443	143	11.572	37	9.928	31
11	230.300	141	11.609	36	9.959	31
13	230.159	140	11.645	36	9.990	30
15	230.019	138	11.681	35	10.020	30
17	229.881	136	+11.716	35	+10.050	30
19	229.745	133	11.751	34	10.080	29
21	229.612	130	11.785	33	10.109	28
23	229.482	127	11.818	33	10.137	27
25	229.355	124	11.851	32	10.164	26
27	229.231	120	+11.883	31	+10.190	26
29	229.111	116	11.914	30	10.216	25
31	228.995	113	11.944	30	10.241	24
Aug. 2	228.882	108	11.974	29	10.265	23
4	228.774	103	12.003	27	10.288	22
6	228.671	99	+12.030	26	+10.310	21
8	228.572	94	12.056	26	10.331	20
10	228.478	89	12.082	24	10.351	19
12	228.389	83	12.106	23	10.370	18
14	228.306		+12.129		+10.388	

0h Welt-Zeit	JAPETUS					
	U		B		P	
1930						
Aug. 14	228°.306	78	+12°.129	22	+10°.388	17
16	228.228	73	12.151	21	10.405	15
18	228.155	66	12.172	19	10.420	14
20	228.089	61	12.191	18	10.434	14
22	228.028	56	12.209	17	10.448	12
24	227.972	51	+12.226	16	+10.460	11
26	227.921	44	12.242	14	10.471	10
28	227.877	37	12.256	13	10.481	8
30	227.840	30	12.269	12	10.489	7
Sept. 1	227.810	24	12.281	10	10.496	5
3	227.786	18	+12.291	9	+10.501	4
5	227.768	11	12.300	7	10.505	3
7	227.757	5	12.307	5	10.508	1
9	227.752	1	12.312	4	10.509	0
11	227.753	8	12.316	3	10.509	1
13	227.761	15	+12.319	1	+10.508	3
15	227.776	21	12.320	0	10.505	4
17	227.797	27	12.320	2	10.501	5
19	227.824	34	12.318	3	10.496	7
21	227.858	41	12.315	4	10.489	8
23	227.899	47	+12.311	6	+10.481	9
25	227.946	53	12.305	8	10.472	11
27	227.999	60	12.297	9	10.461	12
29	228.059	66	12.288	10	10.449	14
Okt. 1	228.125	72	12.278	12	10.435	15
3	228.197	79	+12.266	13	+10.420	16
5	228.276	85	12.253	15	10.404	17
7	228.361	91	12.238	16	10.387	19
9	228.452	97	12.222	18	10.368	20
11	228.549	103	12.204	19	10.348	21
13	228.652	109	+12.185	21	+10.327	23
15	228.761	114	12.164	22	10.304	24
17	228.875	120	12.142	23	10.280	25
19	228.995	125	12.119	24	10.255	26
21	229.120	131	12.095	25	10.229	27
23	229.251	136	+12.070	27	+10.202	29
25	229.387	141	12.043	28	10.173	30
27	229.528	146	12.015	30	10.143	31
29	229.674	151	11.985	31	10.112	32
31	229.825		+11.954		+10.080	

Saturnstrabanten 1930

0h Welt-Zeit 1930	HYPERION $\alpha_{tr}-\alpha_{pl}$		$\delta_{tr}-\delta_{pl}$	
März 11	−1.6 s	+4.5 s	+78″	−5″
12	+2.9	+4.3	+73	−13
13	+7.2	+3.5	+60	−18
14	+10.7	+2.6	+42	−23
15	+13.3	+1.6	+19	−24
16	+14.9	+0.5	−5	−23
17	+15.4	−0.6	−28	−22
18	+14.8	−1.5	−50	−19
19	+13.3	−2.3	−69	−15
20	+11.0	−3.0	−84	−9
21	+8.0	−3.6	−93	−4
22	+4.4	−3.8	−97	+3
23	+0.6	−3.9	−94	+9
24	−3.3	−3.6	−85	+15
25	−6.9	−3.1	−70	+21
26	−10.0	−2.3	−49	+25
27	−12.3	−1.0	−24	+27
28	−13.3	+0.4	+3	+28
29	−12.9	+1.9	+31	+23
30	−11.0	+3.2	+54	+17
31	−7.8	+4.2	+71	+9
April 1	−3.6	+4.6	+80	−1
2	+1.0	+4.5	+79	−10
3	+5.5	+4.0	+69	−17
4	+9.5	+3.2	+52	−21
5	+12.7	+2.1	+31	−25
6	+14.8	+1.0	+6	−24
7	+15.8	0.0	−18	−24
8	+15.8	−1.1	−42	−21
9	+14.7	−2.1	−63	−17
10	+12.6	−2.8	−80	−12
11	+9.8	−3.5	−92	−7
12	+6.3	−3.8	−99	0
13	+2.5	−4.1	−99	+7
14	−1.6	−3.9	−92	+13
15	−5.5	−3.6	−79	+19
16	−9.1	−2.7	−60	+24
17	−11.8	−1.7	−36	+28
18	−13.5	−0.2	−8	+29
19	−13.7		+21	

0h Welt-Zeit 1930	HYPERION $\alpha_{tr}-\alpha_{pl}$		$\delta_{tr}-\delta_{pl}$	
April 19	−13.7 s	+1.3 s	+21″	+26″
20	−12.4	+2.8	+47	+21
21	−9.6	+4.0	+68	+12
22	−5.6	+4.7	+80	+3
23	−0.9	+4.8	+83	−7
24	+3.9	+4.4	+76	−14
25	+8.3	+3.7	+62	−21
26	+12.0	+2.6	+41	−24
27	+14.6	+1.5	+17	−25
28	+16.1	+0.4	−8	−26
29	+16.5	−0.7	−34	−23
30	+15.8	−1.8	−57	−19
Mai 1	+14.0	−2.6	−76	−15
2	+11.4	−3.4	−91	−9
3	+8.0	−3.9	−100	−3
4	+4.1	−4.2	−103	+4
5	−0.1	−4.1	−99	+11
6	−4.2	−3.9	−88	+18
7	−8.1	−3.2	−70	+23
8	−11.3	−2.2	−47	+28
9	−13.5	−0.8	−19	+30
10	−14.3	+0.8	+11	+28
11	−13.5	+2.4	+39	+24
12	−11.1	+3.8	+63	+17
13	−7.3	+4.6	+80	+6
14	−2.7	+5.0	+86	−3
15	+2.3	+4.8	+83	−13
16	+7.1	+4.1	+70	−19
17	+11.2	+3.1	+51	−24
18	+14.3	+1.9	+27	−26
19	+16.2	+0.8	+1	−27
20	+17.0	−0.4	−26	−24
21	+16.6	−1.5	−50	−22
22	+15.1	−2.4	−72	−17
23	+12.7	−3.2	−89	−12
24	+9.5	−3.9	−101	−5
25	+5.6	−4.3	−106	+2
26	+1.3	−4.3	−104	+9
27	−3.0	−4.1	−95	+16
28	−7.1		−79	

0h Welt-Zeit 1930	HYPERION $\alpha_{tr}-\alpha_{pl}$		$\delta_{tr}-\delta_{pl}$	
Mai 28	−7.1 s	−3.6 s	−79″	+22″
29	−10.7	−2.6	−57	+28
30	−13.3	−1.3	−29	+30
31	−14.6	+0.3	+1	+31
Juni 1	−14.3	+2.0	+32	+26
2	−12.3	+3.5	+58	+20
3	−8.8	+4.5	+78	+10
4	−4.3	+5.1	+88	0
5	+0.8	+5.0	+88	−10
6	+5.8	+4.4	+78	−18
7	+10.2	+3.5	+60	−24
8	+13.7	+2.4	+36	−27
9	+16.1	+1.2	+9	−27
10	+17.3	−0.1	−18	−26
11	+17.2	−1.2	−44	−24
12	+16.0	−2.3	−68	−19
13	+13.7	−3.1	−87	−14
14	+10.6	−3.8	−101	−7
15	+6.8	−4.2	−108	0
16	+2.6	−4.5	−108	+7
17	−1.9	−4.3	−101	+14
18	−6.2	−3.8	−87	+22
19	−10.0	−2.9	−65	+27
20	−12.9	−1.7	−38	+30
21	−14.6	−0.2	−8	+32
22	−14.8	+1.6	+24	+28
23	−13.2	+3.1	+52	+23
24	−10.1	+4.4	+75	+13
25	−5.7	+5.1	+88	+3
26	−0.6	+5.1	+91	−8
27	+4.5	+4.7	+83	−16
28	+9.2	+3.8	+67	−23
29	+13.0	+2.7	+44	−27
30	+15.7	+1.5	+17	−28
Juli 1	+17.2	+0.2	−11	−27
2	+17.4	−0.9	−38	−25
3	+16.5	−2.1	−63	−20
4	+14.4	−2.9	−83	−16
5	+11.5	−3.7	−99	−9
6	+7.8		−108	

0h Welt-Zeit	HYPERION $\alpha_{tr} - \alpha_{pl}$	Diff.	HYPERION $\delta_{tr} - \delta_{pl}$	Diff.
1930				
Juli 6	+ 7.8s	−4.2s	−108″	− 2″
7	+ 3.6	−4.4	−110	+ 5
8	− 0.8	−4.4	−105	+13
9	− 5.2	−4.0	− 92	+20
10	− 9.2	−3.1	− 72	+26
11	−12.3	−2.1	− 46	+30
12	−14.4	−0.5	− 16	+32
13	−14.9	+1.1	+ 16	+30
14	−13.8	+2.8	+ 46	+24
15	−11.0	+4.1	+ 70	+16
16	− 6.9	+5.0	+ 86	+ 5
17	− 1.9	+5.1	+ 91	− 5
18	+ 3.2	+4.9	+ 86	−14
19	+ 8.1	+4.0	+ 72	−22
20	+12.1	+3.0	+ 50	−25
21	+15.1	+1.7	+ 25	−28
22	+16.8	+0.5	− 3	−28
23	+17.3	−0.7	− 31	−26
24	+16.6	−1.8	− 57	−21
25	+14.8	−2.7	− 78	−17
26	+12.1	−3.5	− 95	−11
27	+ 8.6	−4.1	−106	− 4
28	+ 4.5	−4.3	−110	+ 4
29	+ 0.2	−4.4	−106	+11
30	− 4.2	−4.0	− 95	+18
31	− 8.2	−3.4	− 77	+24
Aug. 1	−11.6	−2.3	− 53	+29
2	−13.9	−0.8	− 24	+32
3	−14.7	+0.7	+ 8	+30
4	−14.0	+2.4	+ 38	+26
5	−11.6	+3.7	+ 64	+18
6	− 7.9	+4.8	+ 82	+ 8
7	− 3.1	+5.0	+ 90	− 2
8	+ 1.9	+4.9	+ 88	−12
9	+ 6.8	+4.2	+ 76	−20
10	+11.0	+3.2	+ 56	−25
11	+14.2	+2.0	+ 31	−27
12	+16.2	+0.8	+ 4	−28
13	+17.0	−0.5	− 24	−26
14	+16.5		− 50	

0h Welt-Zeit	HYPERION $\alpha_{tr} - \alpha_{pl}$	Diff.	HYPERION $\delta_{tr} - \delta_{pl}$	Diff.
1930				
Aug. 14	+16.5s	−1.5s	− 50″	−22″
15	+15.0	−2.5	− 72	−18
16	+12.5	−3.3	− 90	−12
17	+ 9.2	−3.8	−102	− 6
18	+ 5.4	−4.2	−108	+ 2
19	+ 1.2	−4.3	−106	+ 9
20	− 3.1	−4.1	− 97	+16
21	− 7.2	−3.4	− 81	+23
22	−10.6	−2.5	− 58	+28
23	−13.1	−1.2	− 30	+30
24	−14.3	+0.4	0	+30
25	−13.9	+1.9	+ 30	+27
26	−12.0	+3.3	+ 57	+20
27	− 8.7	+4.5	+ 77	+10
28	− 4.2	+4.8	+ 87	0
29	+ 0.6	+4.9	+ 87	− 9
30	+ 5.5	+4.2	+ 78	−18
31	+ 9.7	+3.4	+ 60	−23
Sept. 1	+13.1	+2.2	+ 37	−26
2	+15.3	+1.1	+ 11	−27
3	+16.4	−0.2	− 16	−26
4	+16.2	−1.2	− 42	−22
5	+15.0	−2.2	− 64	−19
6	+12.8	−3.0	− 83	−13
7	+ 9.8	−3.6	− 96	− 8
8	+ 6.2	−4.0	−104	0
9	+ 2.2	−4.2	−104	+ 7
10	− 2.0	−4.0	− 97	+14
11	− 6.0	−3.5	− 83	+21
12	− 9.5	−2.7	− 62	+25
13	−12.2	−1.5	− 37	+29
14	−13.7	0.0	− 8	+30
15	−13.7	+1.5	+ 22	+27
16	−12.2	+2.9	+ 49	+21
17	− 9.3	+4.0	+ 70	+13
18	− 5.3	+4.7	+ 83	+ 3
19	− 0.6	+4.7	+ 86	− 7
20	+ 4.1	+4.3	+ 79	−15
21	+ 8.4	+3.4	+ 64	−21
22	+11.8		+ 43	

0h Welt-Zeit	HYPERION $\alpha_{tr} - \alpha_{pl}$	Diff.	HYPERION $\delta_{tr} - \delta_{pl}$	Diff.
1930				
Sept. 22	+11.8s	+2.5s	+ 43″	−25″
23	+14.3	+1.3	+ 18	−26
24	+15.6	+0.2	− 8	−25
25	+15.8	−0.8	− 33	−23
26	+15.0	−1.9	− 56	−19
27	+13.1	−2.7	− 75	−15
28	+10.4	−3.3	− 90	− 8
29	+ 7.1	−3.9	− 98	− 2
30	+ 3.2	−4.0	−100	+ 4
Okt. 1	− 0.8	−3.9	− 96	+12
2	− 4.7	−3.6	− 84	+18
3	− 8.3	−2.8	− 66	+24
4	−11.1	−1.8	− 42	+27
5	−12.9	−0.5	− 15	+29
6	−13.4	+1.1	+ 14	+27
7	−12.3	+2.4	+ 41	+22
8	− 9.9	+3.6	+ 63	+15
9	− 6.3	+4.4	+ 78	+ 5
10	− 1.9	+4.6	+ 83	− 4
11	+ 2.7	+4.2	+ 79	−13
12	+ 6.9	+3.6	+ 66	−18
13	+10.5	+2.7	+ 48	−23
14	+13.2	+1.3	+ 25	−25
15	+14.5	+0.9	0	−24
16	+15.4	−0.6	− 24	−23
17	+14.8	−1.5	− 47	−20
18	+13.3	−2.3	− 67	−16
19	+11.0	−3.1	− 83	−10
20	+ 7.9	−3.6	− 93	− 3
21	+ 4.3	−3.8	− 96	+ 2
22	+ 0.5	−3.9	− 94	+ 9
23	− 3.4	−3.6	− 85	+16
24	− 7.0	−3.0	− 69	+22
25	−10.0	−2.0	− 47	+25
26	−12.0	−0.9	− 22	+28
27	−12.9	+0.5	+ 6	+27
28	−12.4	+2.0	+ 33	+23
29	−10.4	+3.2	+ 56	+16
30	− 7.2	+4.3	+ 72	+ 8
31	− 2.9		+ 80	

0h Welt-Zeit	JAPETUS $\alpha_{tr} - \alpha_{pl}$		JAPETUS $\delta_{tr} - \delta_{pl}$	
1930	s	s	"	"
März 11	+17.4	−4.7	−115	+ 3
13	+12.7	−5.0	−112	+ 6
15	+ 7.7	−5.2	−106	+ 9
17	+ 2.5	−5.3	− 97	+11
19	− 2.8	−5.3	− 86	+14
21	− 8.1	−5.1	− 72	+15
23	−13.2	−4.8	− 57	+16
25	−18.0	−4.5	− 41	+17
27	−22.5	−4.0	− 24	+18
29	−26.5	−3.4	− 6	+18
31	−29.9	−2.7	+ 12	+18
April 2	−32.6	−2.0	+ 30	+18
4	−34.6	−1.2	+ 48	+16
6	−35.8	−0.5	+ 64	+15
8	−36.3	+0.4	+ 79	+13
10	−35.9	+1.3	+ 92	+11
12	−34.6	+2.0	+103	+ 9
14	−32.6	+2.8	+112	+ 6
16	−29.8	+3.5	+118	+ 3
18	−26.3	+4.2	+121	+ 1
20	−22.1	+4.8	+122	− 2
22	−17.3	+5.2	+120	− 5
24	−12.1	+5.5	+115	− 8
26	− 6.6	+5.8	+107	−11
28	− 0.8	+5.8	+ 96	−13
30	+ 5.0	+5.7	+ 83	−16
Mai 2	+10.7	+5.5	+ 67	−17
4	+16.2	+5.1	+ 50	−19
6	+21.3	+4.5	+ 31	−20
8	+25.8	+3.9	+ 11	−21
10	+29.7	+3.1	− 10	−20
12	+32.8	+2.2	− 30	−20
14	+35.0	+1.2	− 50	−19
16	+36.2	+0.2	− 69	−17
18	+36.4	−0.8	− 86	−14
20	+35.6	−1.8	−100	−12
22	+33.8	−2.7	−112	−10
24	+31.1	−3.6	−122	− 6
26	+27.5	−4.4	−128	− 2
28	+23.1		−130	

0h Welt-Zeit	JAPETUS $\alpha_{tr} - \alpha_{pl}$		JAPETUS $\delta_{tr} - \delta_{pl}$	
1930	s	s	"	"
Mai 28	+23.1	−5.1	−130	+ 1
30	+18.0	−5.5	−129	+ 5
Juni 1	+12.5	−5.9	−124	+ 8
3	+ 6.6	−6.1	−116	+11
5	+ 0.5	−6.1	−105	+14
7	− 5.6	−6.0	− 91	+16
9	−11.6	−5.8	− 75	+18
11	−17.4	−5.3	− 57	+20
13	−22.7	−4.8	− 37	+21
15	−27.5	−4.1	− 16	+21
17	−31.6	−3.3	+ 5	+22
19	−34.9	−2.5	+ 27	+21
21	−37.4	−1.7	+ 48	+20
23	−39.1	−0.7	+ 68	+18
25	−39.8	+0.3	+ 86	+17
27	−39.5	+1.2	+103	+14
29	−38.3	+2.2	+117	+12
Juli 1	−36.1	+3.0	+129	+ 8
3	−33.1	+3.8	+137	+ 5
5	−29.3	+4.5	+142	+ 2
7	−24.8	+5.2	+144	− 2
9	−19.6	+5.6	+142	− 6
11	−14.0	+6.0	+136	− 9
13	− 8.0	+6.1	+127	−12
15	− 1.9	+6.2	+115	−15
17	+ 4.3	+6.1	+100	−18
19	+10.4	+5.8	+ 82	−21
21	+16.2	+5.3	+ 61	−22
23	+21.5	+4.7	+ 39	−23
25	+26.2	+4.0	+ 16	−24
27	+30.2	+3.1	− 8	−23
29	+33.3	+2.2	− 31	−23
31	+35.5	+1.2	− 54	−21
Aug. 2	+36.7	+0.2	− 75	−19
4	+36.9	−0.9	− 94	−17
6	+36.0	−1.9	−111	−13
8	+34.1	−2.8	−124	−10
10	+31.3	−3.7	−134	− 6
12	+27.6	−4.5	−140	− 2
14	+23.1		−142	

0h Welt-Zeit	JAPETUS $\alpha_{tr} - \alpha_{pl}$		JAPETUS $\delta_{tr} - \delta_{pl}$	
1930	s	s	"	"
Aug. 14	+23.1	−5.0	−142	+ 1
16	+18.1	−5.4	−141	+ 5
18	+12.7	−5.8	−136	+ 9
20	+ 6.9	−5.9	−127	+12
22	+ 1.0	−6.0	−115	+15
24	− 5.0	−5.7	−100	+17
26	−10.7	−5.4	− 83	+20
28	−16.1	−5.0	− 63	+21
30	−21.1	−4.5	− 42	+21
Sept. 1	−25.6	−3.8	− 21	+22
3	−29.4	−3.1	+ 1	+22
5	−32.5	−2.4	+ 23	+22
7	−34.9	−1.5	+ 45	+20
9	−36.4	−0.6	+ 65	+18
11	−37.0	+0.2	+ 83	+16
13	−36.8	+1.0	+ 99	+14
15	−35.8	+1.9	+113	+12
17	−33.9	+2.6	+125	+ 8
19	−31.3	+3.3	+133	+ 5
21	−28.0	+3.9	+138	+ 2
23	−24.1	+4.5	+140	− 2
25	−19.6	+4.9	+138	− 4
27	−14.7	+5.2	+134	− 8
29	− 9.5	+5.4	+126	−11
Okt. 1	− 4.1	+5.5	+115	−14
3	+ 1.4	+5.4	+101	−16
5	+ 6.8	+5.1	+ 85	−18
7	+11.9	+4.9	+ 67	−19
9	+16.8	+4.4	+ 48	−21
11	+21.2	+3.8	+ 27	−21
13	+25.0	+3.1	+ 6	−21
15	+28.1	+2.4	− 15	−20
17	+30.5	+1.6	− 35	−19
19	+32.1	+0.7	− 54	−18
21	+32.8	−0.2	− 72	−15
23	+32.6	−1.0	− 87	−13
25	+31.6	−1.9	−100	−11
27	+29.7	−2.6	−111	− 7
29	+27.1	−3.3	−118	− 4
31	+23.8		−122	

Östliche Elongationen (in Welt-Zeit)

MIMAS

		h			h			h			h			h
März	11	13.1	April	24	20.1	Juni	8	2.9	Juli	22	9.9	Sept.	4	16.9
	12	11.7		25	18.7		9	1.5		23	8.5		5	15.5
	13	10.3		26	17.3		10	0.1		24	7.1		6	14.1
	14	8.9		27	15.9		10	22.7		25	5.7		7	12.7
	15	7.5		28	14.6		11	21.4		26	4.3		8	11.4
	16	6.2		29	13.2		12	20.0		27	2.9		9	10.0
	17	4.8		30	11.8		13	18.6		28	1.5		10	8.6
	18	3.4	Mai	1	10.4		14	17.2		29	0.1		11	7.2
	19	2.0		2	9.0		15	15.9		29	22.8		12	5.8
	20	0.6		3	7.7		16	14.5		30	21.4		13	4.4
	20	23.2		4	6.3		17	13.1		31	20.0		14	3.0
	21	21.8		5	4.9		18	11.7	Aug.	1	18.6		15	1.6
	22	20.4		6	3.5		19	10.3		2	17.3		16	0.3
	23	19.1		7	2.1		20	9.0		3	15.9		16	22.9
	24	17.7		8	0.7		21	7.6		4	14.5		17	21.5
	25	16.3		8	23.3		22	6.2		5	13.1		18	20.1
	26	14.9		9	21.9		23	4.8		6	11.7		19	18.8
	27	13.6		10	20.6		24	3.4		7	10.4		20	17.4
	28	12.2		11	19.2		25	2.0		8	9.0		21	16.0
	29	10.8		12	17.8		26	0.6		9	7.6		22	14.6
	30	9.4		13	16.4		26	23.2		10	6.2		23	13.2
	31	8.0		14	15.0		27	21.9		11	4.8		24	11.9
April	1	6.7		15	13.6		28	20.5		12	3.4		25	10.5
	2	5.3		16	12.2		29	19.1		13	2.0		26	9.1
	3	3.9		17	10.8		30	17.7		14	0.6		27	7.7
	4	2.5		18	9.4	Juli	1	16.3		14	23.3		28	6.3
	5	1.1		19	8.0		2	14.9		15	21.9		29	4.9
	5	23.7		20	6.7		3	13.5		16	20.5		30	3.6
	6	22.3		21	5.3		4	12.1		17	19.1	Okt.	1	2.2
	7	20.9		22	3.9		5	10.7		18	17.8		2	0.8
	8	19.6		23	2.5		6	9.4		19	16.4		2	23.4
	9	18.2		24	1.1		7	8.0		20	15.0		3	22.1
	10	16.8		24	23.7		8	6.6		21	13.6		4	20.7
	11	15.4		25	22.3		9	5.2		22	12.2		5	19.3
	12	14.1		26	21.0		10	3.8		23	10.9		6	17.9
	13	12.7		27	19.6		11	2.4		24	9.5		7	16.6
	14	11.3		28	18.2		12	1.0		25	8.1		8	15.2
	15	9.9		29	16.8		12	23.6		26	6.7		9	13.8
	16	8.5		30	15.4		13	22.3		27	5.3		10	12.4
	17	7.2		31	14.0		14	20.9		28	3.9		11	11.1
	18	5.8	Juni	1	12.6		15	19.5		29	2.5		12	9.7
	19	4.4		2	11.2		16	18.1		30	1.1		13	8.3
	20	3.0		3	9.8		17	16.8		30	23.8		14	6.9
	21	1.6		4	8.5		18	15.4		31	22.4		15	5.6
	22	0.2		5	7.1		19	14.0	Sept.	1	21.0		16	4.2
	22	22.8		6	5.7		20	12.6		2	19.6		17	2.8
	23	21.4		7	4.3		21	11.2		3	18.3		18	1.4

Östliche Elongationen (in Welt-Zeit)

MIMAS

		h
Okt.	19	0.1
	19	22.7
	20	21.3
	21	20.0
	22	18.6
	23	17.2
	24	15.9
	25	14.5
	26	13.1
	27	11.7
	28	10.4
	29	9.0

ENCELADUS

		h
März	11	9.8
	12	18.6
	14	3.5
	15	12.4
	16	21.3
	18	6.2
	19	15.1
	21	0.0
	22	8.9
	23	17.8
	25	2.6
	26	11.5
	27	20.4
	29	5.3
	30	14.2
	31	23.0
April	2	7.9
	3	16.8
	5	1.7
	6	10.6
	7	19.5
	9	4.4
	10	13.3
	11	22.2
	13	7.0
	14	15.9
	16	0.8
	17	9.7
	18	18.6
	20	3.5

ENCELADUS

		h
April	21	12.4
	22	21.3
	24	6.1
	25	15.0
	26	23.9
	28	8.8
	29	17.6
Mai	1	2.5
	2	11.4
	3	20.3
	5	5.1
	6	14.0
	7	22.9
	9	7.8
	10	16.7
	12	1.5
	13	10.4
	14	19.3
	16	4.2
	17	13.1
	18	21.9
	20	6.8
	21	15.7
	23	0.6
	24	9.5
	25	18.3
	27	3.2
	28	12.1
	29	20.9
	31	5.8
Juni	1	14.7
	2	23.6
	4	8.4
	5	17.3
	7	2.2
	8	11.1
	9	20.0
	11	4.8
	12	13.7
	13	22.6
	15	7.5
	16	16.3
	18	1.2
	19	10.1
	20	19.0
	22	3.8
	23	12.7

ENCELADUS

		h
Juni	24	21.6
	26	6.5
	27	15.3
	29	0.2
	30	9.1
Juli	1	18.0
	3	2.8
	4	11.7
	5	20.6
	7	5.5
	8	14.3
	9	23.2
	11	8.1
	12	17.0
	14	1.8
	15	10.7
	16	19.6
	18	4.5
	19	13.3
	20	22.2
	22	7.1
	23	16.0
	25	0.8
	26	9.7
	27	18.6
	29	3.5
	30	12.3
	31	21.2
Aug.	2	6.1
	3	15.0
	4	23.9
	6	8.8
	7	17.6
	9	2.5
	10	11.4
	11	20.3
	13	5.2
	14	14.1
	15	22.9
	17	7.8
	18	16.7
	20	1.6
	21	10.5
	22	19.3
	24	4.2
	25	13.1
	26	22.0

ENCELADUS

		h
Aug.	28	6.9
	29	15.8
	31	0.7
Sept.	1	9.5
	2	18.4
	4	3.3
	5	12.2
	6	21.1
	8	5.9
	9	14.8
	10	23.7
	12	8.6
	13	17.5
	15	2.4
	16	11.3
	17	20.2
	19	5.1
	20	13.9
	21	22.8
	23	7.7
	24	16.6
	26	1.5
	27	10.4
	28	19.3
	30	4.2
Okt.	1	13.1
	2	22.0
	4	6.9
	5	15.8
	7	0.6
	8	9.5
	9	18.4
	11	3.3
	12	12.2
	13	21.1
	15	6.0
	16	14.9
	17	23.8
	19	8.7
	20	17.6
	22	2.5
	23	11.4
	24	20.3
	26	5.2
	27	14.1
	28	23.0
	30	7.9

TETHYS

		h
März	11	7.4
	13	4.8
	15	2.1
	16	23.4
	18	20.7
	20	18.0
	22	15.3
	24	12.6
	26	9.9
	28	7.3
	30	4.6
April	1	1.9
	2	23.2
	4	20.5
	6	17.8
	8	15.1
	10	12.4
	12	9.7
	14	7.1
	16	4.4
	18	1.7
	19	23.0
	21	20.3
	23	17.6
	25	14.9
	27	12.2
	29	9.5
Mai	1	6.8
	3	4.1
	5	1.4
	6	22.7
	8	20.0
	10	17.3
	12	14.6
	14	11.9
	16	9.2
	18	6.5
	20	3.8
	22	1.1
	23	22.4
	25	19.7
	27	17.0
	29	14.3
	31	11.6
Juni	2	8.8
	4	6.1
	6	3.4

Östliche Elongationen (in Welt-Zeit)

TETHYS

		h
Juni	8	0.7
	9	22.0
	11	19.3
	13	16.6
	15	13.9
	17	11.1
	19	8.4
	21	5.7
	23	3.0
	25	0.3
	26	21.6
	28	18.9
	30	16.2
Juli	2	13.4
	4	10.7
	6	8.0
	8	5.3
	10	2.6
	11	23.9
	13	21.2
	15	18.5
	17	15.8
	19	13.0
	21	10.3
	23	7.6
	25	4.9
	27	2.2
	28	23.5
	30	20.8
Aug.	1	18.1
	3	15.4
	5	12.7
	7	10.0
	9	7.3
	11	4.6
	13	1.9
	14	23.2
	16	20.5
	18	17.8
	20	15.1
	22	12.4
	24	9.7
	26	7.0
	28	4.3
	30	1.6
	31	22.9
Sept.	2	20.2

TETHYS

		h
Sept.	4	17.6
	6	14.9
	8	12.2
	10	9.5
	12	6.8
	14	4.1
	16	1.4
	17	22.7
	19	20.1
	21	17.4
	23	14.7
	25	12.0
	27	9.3
	29	6.6
Okt.	1	3.9
	3	1.3
	4	22.6
	6	19.9
	8	17.2
	10	14.5
	12	11.9
	14	9.2
	16	6.5
	18	3.9
	20	1.2
	21	22.5
	23	19.8
	25	17.1
	27	14.5
	29	11.8

DIONE

		h
März	10	5.5
	12	23.2
	15	17.0
	18	10.7
	21	4.4
	23	22.1
	26	15.8
	29	9.5
April	1	3.2
	3	20.9
	6	14.6
	9	8.3

DIONE

		h
April	12	2.0
	14	19.6
	17	13.3
	20	7.0
	23	0.7
	25	18.4
	28	12.1
Mai	1	5.7
	3	23.4
	6	17.1
	9	10.8
	12	4.4
	14	22.1
	17	15.8
	20	9.4
	23	3.1
	25	20.8
	28	14.4
	31	8.1
Juni	3	1.7
	5	19.4
	8	13.0
	11	6.7
	14	0.3
	16	18.0
	19	11.6
	22	5.3
	24	22.9
	27	16.6
	30	10.2
Juli	3	3.9
	5	21.5
	8	15.2
	11	8.8
	14	2.5
	16	20.1
	19	13.8
	22	7.4
	25	1.1
	27	18.7
	30	12.3
Aug.	2	6.0
	4	23.6
	7	17.3
	10	10.9
	13	4.6
	15	22.3

DIONE

		h
Aug.	18	16.0
	21	9.6
	24	3.3
	26	21.0
	29	14.7
Sept.	1	8.4
	4	2.1
	6	19.7
	9	13.4
	12	7.1
	15	0.8
	17	18.5
	20	12.2
	23	5.9
	25	23.6
	28	17.3
Okt.	1	11.0
	4	4.7
	6	22.4
	9	16.2
	12	9.9
	15	3.6
	17	21.3
	20	15.0
	23	8.7
	26	2.5
	28	20.2
	31	13.9

RHEA

		h
März	10	16.0
	15	4.5
	19	17.0
	24	5.5
	28	18.0
April	2	6.4
	6	18.9
	11	7.4
	15	19.8
	20	8.2
	24	20.6
	29	9.0
Mai	3	21.4
	8	9.8

RHEA

		h
Mai	12	22.2
	17	10.5
	21	22.9
	26	11.2
	30	23.6
Juni	4	11.9
	9	0.2
	13	12.5
	18	0.8
	22	13.2
	27	1.5
Juli	1	13.8
	6	2.1
	10	14.4
	15	2.7
	19	15.0
	24	3.4
	28	15.7
Aug.	2	4.1
	6	16.4
	11	4.7
	15	17.1
	20	5.5
	24	17.8
	29	6.2
Sept.	2	18.7
	7	7.1
	11	19.5
	16	8.0
	20	20.4
	25	8.8
	29	21.2
Okt.	4	9.7
	8	22.3
	13	10.8
	17	23.3
	22	11.8
	27	0.3
	31	12.8

Elongationen und Konjunktionen (in Welt-Zeit)

TITAN

		h	
März	11	6.7	Unt. Konj.
	15	10.7	Westl. El.
	19	8.3	Ob. Konj.
	23	4.0	Östl. El.
	27	6.4	Unt. Konj.
	31	10.4	Westl. El.
April	4	7.7	Ob. Konj.
	8	3.3	Östl. El.
	12	5.6	Unt. Konj.
	16	9.5	Westl. El.
	20	6.6	Ob. Konj.
	24	2.1	Östl. El.
	28	4.3	Unt. Konj.
Mai	2	8.1	Westl. El.
	6	5.1	Ob. Konj.
	10	0.4	Östl. El.
	14	2.5	Unt. Konj.
	18	6.2	Westl. El.
	22	3.1	Ob. Konj.
	25	22.4	Östl. El.
	30	0.3	Unt. Konj.
Juni	3	3.9	Westl. El.
	7	0.8	Ob. Konj.
	10	20.1	Östl. El.
	14	21.8	Unt. Konj.
	19	1.4	Westl. El.
	22	22.3	Ob. Konj.
	26	17.5	Östl. El.
	30	19.1	Unt. Konj.
Juli	4	22.7	Westl. El.
	8	19.7	Ob. Konj.
	12	14.9	Östl. El.
	16	16.4	Unt. Konj.
	20	20.1	Westl. El.
	24	17.2	Ob. Konj.
	28	12.4	Östl. El.
Aug.	1	13.9	Unt. Konj.
	5	17.6	Westl. El.
	9	14.9	Ob. Konj.
	13	10.2	Östl. El.
	17	11.7	Unt. Konj.
	21	15.5	Westl. El.
	25	13.0	Ob. Konj.
	29	8.4	Östl. El.

TITAN

		h	
Sept.	2	9.9	Unt. Konj.
	6	13.9	Westl. El.
	10	11.5	Ob. Konj.
	14	7.0	Östl. El.
	18	8.6	Unt. Konj.
	22	12.7	Westl. El.
	26	10.5	Ob. Konj.
	30	6.1	Östl. El.
Okt.	4	7.9	Unt. Konj.
	8	12.0	Westl. El.
	12	9.9	Ob. Konj.
	16	5.7	Östl. El.
	20	7.7	Unt. Konj.
	24	11.9	Westl. El.
	28	9.7	Ob. Konj.

HYPERION

		h	
März	11	13.2	Ob. Konj.
	16	20.3	Östl. El.
	23	9.5	Unt. Konj.
	28	16.1	Westl. El.
April	1	23.8	Ob. Konj.
	7	7.5	Östl. El.
	13	20.2	Unt. Konj.
	19	1.7	Westl. El.
	23	9.2	Ob. Konj.
	28	17.2	Östl. El.
Mai	5	5.3	Unt. Konj.
	10	10.1	Westl. El.
	14	17.6	Ob. Konj.
	20	1.5	Östl. El.
	26	12.9	Unt. Konj.
	31	17.5	Westl. El.
Juni	5	0.9	Ob. Konj.
	10	8.6	Östl. El.
	16	19.4	Unt. Konj.
	22	0.0	Westl. El.
	26	7.5	Ob. Konj.
Juli	1	14.7	Östl. El.
	8	1.1	Unt. Konj.
	13	5.9	Westl. El.
	17	13.6	Ob. Konj.
	22	20.3	Östl. El.

HYPERION

		h	
Juli	29	6.4	Unt. Konj.
Aug.	3	11.4	Westl. El.
	7	19.4	Ob. Konj.
	13	2.0	Östl. El.
	19	11.9	Unt. Konj.
	24	17.2	Westl. El.
	29	1.4	Ob. Konj.
Sept.	3	8.4	Östl. El.
	9	18.1	Unt. Konj.
	14	23.3	Westl. El.
	19	7.9	Ob. Konj.
	24	15.4	Östl. El.
Okt.	1	1.1	Unt. Konj.
	6	5.7	Westl. El.
	10	14.8	Ob. Konj.
	15	23.3	Östl. El.
	22	8.8	Unt. Konj.
	27	12.6	Westl. El.

JAPETUS

		h	
März	18	9.9	Unt. Konj.
April	8	7.2	Westl. El.
	28	17.0	Ob. Konj.
Mai	17	13.4	Östl. El.
Juni	5	14.6	Unt. Konj.
	25	23.7	Westl. El.
Juli	16	2.3	Ob. Konj.
Aug.	3	20.7	Östl. El.
	22	21.1	Unt. Konj.
Sept.	12	11.3	Westl. El.
Okt.	3	1.1	Ob. Konj.
	22	6.8	Östl. El.

Welt-Zeit			
Jan.	1	15^h	☿ ☌ ☾
	2	17	♀ ☌ ♂, ♀ 0° 33′ N.
	3	7	♀ ☌ ♄, ♀ 0° 57′ S.
	3	12	☉ im Perigäum
	3	18	♂ ☌ ♄, ♂ 1° 28′ S.
	6	0	☿ gr. östl. El. 19° 15′
	7	7	♅ ☌ ☾
	11	20	♃ ☌ ☾
	12	16	☿ stationär
	14	16	☿ im Perihel
	17	9	♆ ☌ ☾
	22	1	☿ untere ☌ ☉
	23	4	☿ ☌ ♀, ☿ 4° 25′ N.
	27	1	♄ ☌ ☾
	28	9	♂ ☌ ☾
	28	10	☿ ☌ ☾
	28	21	☿ ☌ ♂, ☿ 4° 22′ N.
	29	12	♀ ☌ ☾
	31	14	♃ stationär
Febr.	2	12^h	☿ stationär
	2	14	♀ im Aphel
	3	15	♅ ☌ ☾
	6	17	♀ obere ☌ ☉
	8	4	♃ ☌ ☾
	13	20	♆ ☌ ☾
	15	9	☿ gr. westl. El. 26° 14′
	21	13	♆ ☍ ☉
	23	12	♄ ☌ ☾
	26	6	☿ ☌ ☾
	26	11	♂ ☌ ☾
	27	16	☿ im Aphel
	28	23	♀ ☌ ☾
März	1	22^h	☿ ☌ ♂, ☿ 0° 31′ S.
	3	0	♅ ☌ ☾
	7	14	♃ ☌ ☾
	13	5	♆ ☌ ☾
	21	8	Frühlingsanfang
	21	9	♀ ☌ ♅, ♀ 0° 32′ S.
	22	23	♄ ☌ ☾
	27	16	♂ ☌ ☾
	29	23	☿ ☌ ☾
	30	9	♅ ☌ ☾
	31	8	♀ ☌ ☾

Welt-Zeit			
April	1	13^h	☿ obere ☌ ☉
	1	14	☿ ☌ ♅, ☿ 0° 26′ S.
	1	19	♅ ☌ ☉
	4	2	♃ ☌ ☾
	9	12	♆ ☌ ☾
	12	15	☿ im Perihel
	13	—	☾ part. Finsternis
	19	9	♄ ☌ ☾
	21	15	♄ stationär
	22	9	☿ ☌ ♀, ☿ 2° 27′ N.
	22	13	♂ im Perihel
	25	21	♂ ☌ ☾
	26	20	♅ ☌ ☾
	27	8	☿ ☌ ♀, ☿ 2° 34′ N.
	27	20	☿ gr. östl. El. 20° 33′
	28	—	☉ ringf. Finsternis
	30	9	☿ ☌ ☾
	30	11	♀ ☌ ☾
Mai	1	17^h	♃ ☌ ☾
	6	18	♆ ☌ ☾
	9	10	☿ stationär
	12	1	♂ ☌ ♅, ♂ 0° 29′ S.
	12	15	♆ stationär
	16	16	♄ ☌ ☾
	17	18	♀ ☌ ♃, ♀ 1° 21′ N.
	20	5	☿ untere ☌ ☉
	24	8	♅ ☌ ☾
	25	2	♂ ☌ ☾
	25	21	♀ im Perihel
	26	15	☿ im Aphel
	27	12	☿ ☌ ☾
	29	11	♃ ☌ ☾
	30	7	♀ ☌ ☾
Juni	1	10^h	☿ stationär
	3	0	♆ ☌ ☾
	12	21	♄ ☌ ☾
	15	2	☿ gr. westl. El. 23° 16
	20	16	♃ ☌ ☉
	20	19	♅ ☌ ☾
	22	4	Sommersanfang
	23	3	♂ ☌ ☾
	25	4	☿ ☌ ☾
	26	7	♃ ☌ ☾
	29	0	♀ ☌ ☾
	30	7	♆ ☌ ☾

Konstellationen 1930

Welt-Zeit		h	
Juli	1	3	♄ ☍ ☉
	3	0	☉ im Apogäum
	5	23	☿ ☌ ♃, ☿ 0° 22′ N.
	9	15	☿ im Perihel
	10	0	♄ ☌ ☾
	15	10	☿ obere ☌ ☉
	16	0	♀ ☌ ♆, ♀ 0° 52′ N.
	18	3	♅ ☌ ☾
	21	21	♅ stationär
	22	1	♂ ☌ ☾
	24	3	♃ ☌ ☾
	26	15	☿ ☌ ☾
	27	18	♆ ☌ ☾
	28	17	♀ ☌ ☾
Aug.	5	14	☿ ☌ ♆, ☿ 0° 15′ N.
	6	2	♄ ☌ ☾
	14	9	♅ ☌ ☾
	19	18	♂ ☌ ☾
	20	22	♃ ☌ ☾
	22	14	☿ im Aphel
	24	6	♆ ☌ ☾
	25	23	☿ ☌ ☾
	26	5	☿ gr. östl. El. 27° 20′
	27	8	♆ ☌ ☉
	27	9	♀ ☌ ☾
Sept.	2	7	♄ ☌ ☾
	8	8	☿ stationär
	9	23	♄ stationär
	10	14	♅ ☌ ☾
	13	11	♀ gr. östl. El. 46° 22′
	15	7	♀ im Aphel
	17	7	♂ ☌ ☾
	17	14	♃ ☌ ☾
	20	18	♆ ☌ ☾
	21	20	☿ untere ☌ ☉
	22	6	☿ ☌ ☾
	23	19	Herbstanfang
	25	20	♀ ☌ ☾
	27	1	♂ ☌ ♃, ♂ 0° 43′ N.
	29	14	♄ ☌ ☾
	30	5	☿ stationär

Welt-Zeit		h	
Okt.	5	14	☿ im Perihel
	7	—	☾ part. Finsternis
	7	9	♅ ☍ ☉
	7	11	☿ gr. westl. El. 17° 58
	7	18	♅ ☌ ☾
	15	1	♃ ☌ ☾
	15	15	♂ ☌ ☾
	18	5	♆ ☌ ☾
	18	18	♀ im gr. Glanze
	21	—	☉ tot. Finsternis
	21	2	☿ ☌ ☾
	24	15	♀ ☌ ☾
	27	1	♄ ☌ ☾
Nov.	2	9	♀ stationär
	3	23	♅ ☌ ☾
	7	3	☿ obere ☌ ☉
	8	5	♃ stationär
	11	8	♃ ☌ ☾
	12	17	♂ ☌ ☾
	14	12	♆ ☌ ☾
	18	9	☿ ☌ ♀, ☿ 2° 35′ N.
	18	14	☿ im Aphel
	20	17	♀ ☌ ☾
	21	2	☿ ☌ ☾
	22	18	♀ untere ☌ ☉
	23	15	♄ ☌ ☾
Dez.	1	7	♅ ☌ ☾
	8	12	♃ ☌ ☾
	9	4	♆ stationär
	10	10	♂ ☌ ☾
	11	18	♆ ☌ ☾
	12	3	♀ stationär
	15	0	☿ ☌ ♄, ☿ 2° 33′ S.
	17	12	♀ ☌ ☾
	19	15	♂ stationär
	20	5	☿ gr. östl. El. 20° 11′
	21	5	♄ ☌ ☾
	21	18	☿ ☌ ☾
	21	18	♅ stationär
	22	14	Wintersanfang
	27	18	☿ stationär
	28	15	♅ ☌ ☾
	28	16	♀ im gr. Glanze

Präzession in Rektaszension (p_α) und Deklination (p_δ)

$\alpha \backslash \delta$	p_α +60	+50	+40	+30	+20	+10	0	−10	−20	−30	−40	−50	−60	p_δ
0h	3.07s	3.07s	3.07s	3.07s	3.07s	3.07s	3.07s	3.07s	3.07s	3.07s	3.07s	3.07s	3.07s	+20.0″
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	+ 5.2
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0
7	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	− 5.2
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	−10.0
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	−14.2
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	−17.4
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	−19.4
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	−20.0
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	−19.4
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	−17.4
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	−14.2
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	−10.0
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	− 5.2
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2
20	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0

Präzessionswerte und Schiefe der Ekliptik

Zeit	m	n	ψ	$\log \pi$	Π	ε
1900.0	3.07233s	20.0468″	50.2564″	9.67309	173° 57.06′	23° 27′ 8.26″
1905.0	3.07243	20.0464	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	50.2586	9.67302	174 2.53	23 27 3.58
1915.0	3.07261	20.0456	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	50.2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	50.2620	9.67293	174 10.75	23 26 56.55
1930.0	3.07289	20.0443	50.2631	9.67290	174 13.49	23 26 54.21
1935.0	3.07299	20.0438	50.2642	9.67287	174 16.23	23 26 51.87
1940.0	3.07308	20.0434	50.2653	9.67284	174 18.97.	23 26 49.52

Länge λ	Präzession in Länge p_λ — Breite β: 0°	+1°	+2°	+3°	+4°	+5°	+6°	+7°	+8°	+9°	Länge λ	Präz. in Br. p_β — Präzession p_β	
0°	50.262″	.254″	.245″	.237″	.229″	50.221″	.213″	.205″	.196″	.188″	0°	+0.048″	80
10	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	10	+0.128	77
20	.262	.255	.247	.240	.232	.225	.217	.210	.202	.195	20	+0.205	70
30	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	30	+0.275	63
40	50.262	.256	.251	.245	.239	50.233	.227	.221	.216	.210	40	+0.338	52
50	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	50	+0.390	40
60	.262	.259	.255	.252	.249	.245	.242	.238	.235	.231	60	+0.430	26
70	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	70	+0.456	14
80	50.262	.261	.261	.260	.259	50.259	.258	.258	.257	.257	80	+0.470	1
90	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	90	+0.469	16
100	.262	.264	.267	.269	.271	.273	.275	.277	.280	.282	100	+0.453	29
110	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	110	+0.424	42
120	50.262	.267	.271	.276	.281	50.286	.291	.296	.301	.306	120	+0.382	54
130	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	130	+0.328	63
140	.262	.269	.275	.282	.289	.296	.303	.310	.317	.324	140	+0.265	72
150	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	150	+0.193	77
160	50.262	.270	.278	.286	.294	50.302	.310	.318	.326	.334	160	+0.116	81
170	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	170	+0.035	83
180	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	180	−0.048	80
190	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	190	−0.128	77
200	50.262	.269	.277	.284	.292	50.299	.307	.314	.322	.329	200	−0.205	70
210	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	210	−0.275	63
220	.262	.268	.273	.279	.285	.291	.297	.303	.308	.314	220	−0.338	52
230	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	230	−0.390	40
240	50.262	.265	.269	.272	.275	50.279	.282	.286	.289	.293	240	−0.430	26
250	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	250	−0.456	14
260	.262	.263	.263	.264	.265	.265	.266	.266	.267	.267	260	−0.470	1
270	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	270	−0.469	16
280	50.262	.260	.257	.255	.253	50.251	.249	.247	.244	.242	280	−0.453	29
290	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	290	−0.424	42
300	.262	.257	.253	.248	.243	.238	.233	.228	.223	.218	300	−0.382	54
310	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	310	−0.328	63
320	50.262	.255	.249	.242	.235	50.228	.221	.214	.207	.200	320	−0.265	72
330	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	330	−0.193	77
340	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	340	−0.116	81
350	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	350	−0.035	83
360	50.262	.254	.245	.237	.229	50.221	.213	.205	.196	.188	360	+0.048	

Länge λ	Präzession in Länge p_λ — Breite β 0°	−1°	−2°	−3°	−4°	−5°	−6°	−7°	−8°	−9°	Präz. in Br. p_β — Länge λ	Präzession p_β	
0°	50.262″	.270″	.279″	.287″	.295″	50.303″	.311″	.319″	.328″	.336″	0°	+0.048″	80
10	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	10	+0.128	77
20	.262	.269	.277	.284	.292	.299	.307	.314	.322	.329	20	+0.205	70
30	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	30	+0.275	63
40	50.262	.268	.273	.279	.285	50.291	.297	.303	.308	.314	40	+0.338	52
50	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	50	+0.390	40
60	.262	.265	.269	.272	.275	.279	.282	.286	.289	.293	60	+0.430	26
70	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	70	+0.456	14
80	50.262	.263	.263	.264	.265	50.265	.266	.266	.267	.267	80	+0.470	1
90	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	90	+0.469	16
100	.262	.260	.257	.255	.253	.251	.249	.247	.244	.242	100	+0.453	29
110	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	110	+0.424	42
120	50.262	.257	.253	.248	.243	50.238	.233	.228	.223	.218	120	+0.382	54
130	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	130	+0.328	63
140	.262	.255	.249	.242	.235	.228	.221	.214	.207	.200	140	+0.265	72
150	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	150	+0.193	77
160	50.262	.254	.246	.238	.230	50.222	.214	.206	.198	.190	160	+0.116	81
170	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	170	+0.035	83
180	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	180	−0.048	80
190	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	190	−0.128	77
200	50.262	.255	.247	.240	.232	50.225	.217	.210	.202	.195	200	−0.205	70
210	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	210	−0.275	63
220	.262	.256	.251	.245	.239	.233	.227	.221	.216	.210	220	−0.338	52
230	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	230	−0.390	40
240	50.262	.259	.255	.252	.249	50.245	.242	.238	.235	.231	240	−0.430	26
250	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	250	−0.456	14
260	.262	.261	.261	.260	.259	.259	.258	.258	.257	.257	260	−0.470	1
270	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	270	−0.469	16
280	50.262	.264	.267	.269	.271	50.273	.275	.277	.280	.282	280	−0.453	29
290	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	290	−0.424	42
300	.262	.267	.271	.276	.281	.286	.291	.296	.301	.306	300	−0.382	54
310	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	310	−0.328	63
320	50.262	.269	.275	.282	.289	50.296	.303	.310	.317	.324	320	−0.265	72
330	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	330	−0.193	77
340	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	340	−0.116	81
350	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	350	−0.035	83
360	50.262	.270	.279	.287	.295	50.303	.311	.319	.328	.336	360	+0.048	

Halber Tagbogen

δ \ φ	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
—30	4 45.4	4 38.8	4 31.8	4 24.4	4 16.5	4 8.1	3 58.9	3 48.9	3 37.9	3 25.7	3 11.8
29	4 48.6	4 42.3	4 35.6	4 28.6	4 21.1	4 13.0	4 4.3	3 54.9	3 44.5	3 33.0	3 20.1
28	4 51.7	4 45.7	4 39.3	4 32.6	4 25.5	4 17.8	4 9.6	4 0.7	3 50.9	3 40.1	3 28.0
27	4 54.7	4 49.0	4 42.9	4 36.5	4 29.8	4 22.5	4 14.7	4 6.2	3 57.0	3 46.9	3 35.5
26	4 57.7	4 52.2	4 46.5	4 40.4	4 33.9	4 27.1	4 19.7	4 11.7	4 3.0	3 53.4	3 42.8
25	5 0.6	4 55.4	4 49.9	4 44.2	4 38.0	4 31.5	4 24.5	4 16.9	4 8.7	3 59.7	3 49.7
24	5 3.5	4 58.5	4 53.3	4 47.8	4 42.0	4 35.8	4 29.2	4 22.0	4 14.3	4 5.8	3 56.5
23	5 6.3	5 1.6	4 56.6	4 51.4	4 45.9	4 40.1	4 33.8	4 27.0	4 19.7	4 11.8	4 3.0
22	5 9.0	5 4.6	4 59.9	4 55.0	4 49.7	4 44.2	4 38.3	4 31.9	4 25.0	4 17.5	4 9.3
21	5 11.7	5 7.5	5 3.1	4 58.4	4 53.5	4 48.3	4 42.7	4 36.7	4 30.2	4 23.2	4 15.4
—20	5 14.4	5 10.4	5 6.2	5 1.8	4 57.2	4 52.3	4 47.0	4 41.3	4 35.3	4 28.7	4 21.4
19	5 17.0	5 13.3	5 9.3	5 5.2	5 0.8	4 56.2	4 51.2	4 45.9	4 40.2	4 34.0	4 27.3
18	5 19.6	5 16.1	5 12.4	5 8.5	5 4.4	5 0.0	4 55.4	4 50.4	4 45.1	4 39.3	4 33.0
17	5 22.2	5 18.9	5 15.4	5 11.7	5 7.9	5 3.8	4 59.5	4 54.9	4 49.9	4 44.5	4 38.6
16	5 24.7	5 21.6	5 18.4	5 14.9	5 11.4	5 7.5	5 3.5	4 59.2	4 54.6	4 49.5	4 44.1
15	5 27.2	5 24.3	5 21.3	5 18.1	5 14.8	5 11.2	5 7.5	5 3.5	4 59.2	4 54.5	4 49.5
14	5 29.7	5 27.0	5 24.2	5 21.3	5 18.2	5 14.9	5 11.4	5 7.7	5 3.7	4 59.5	4 54.8
13	5 32.1	5 29.7	5 27.1	5 24.4	5 21.5	5 18.5	5 15.3	5 11.9	5 8.2	5 4.3	5 0.0
12	5 34.6	5 32.3	5 29.9	5 27.4	5 24.8	5 22.1	5 19.1	5 16.0	5 12.6	5 9.0	5 5.1
11	5 37.0	5 34.9	5 32.7	5 30.5	5 28.1	5 25.6	5 22.9	5 20.1	5 17.0	5 13.7	5 10.2
—10	5 39.4	5 37.5	5 35.5	5 33.5	5 31.3	5 29.1	5 26.7	5 24.1	5 21.4	5 18.4	5 15.2
9	5 41.7	5 40.1	5 38.3	5 36.5	5 34.6	5 32.5	5 30.4	5 28.1	5 25.7	5 23.0	5 20.2
8	5 44.1	5 42.6	5 41.1	5 39.5	5 37.8	5 36.0	5 34.1	5 32.1	5 29.9	5 27.6	5 25.1
7	5 46.4	5 45.2	5 43.8	5 42.4	5 41.0	5 39.4	5 37.8	5 36.0	5 34.2	5 32.2	5 30.0
6	5 48.8	5 47.7	5 46.6	5 45.4	5 44.1	5 42.8	5 41.4	5 40.0	5 38.4	5 36.7	5 34.9
5	5 51.1	5 50.2	5 49.3	5 48.3	5 47.3	5 46.2	5 45.1	5 43.9	5 42.6	5 41.2	5 39.7
4	5 53.4	5 52.7	5 52.0	5 51.2	5 50.4	5 49.6	5 48.7	5 47.8	5 46.8	5 45.7	5 44.5
3	5 55.8	5 55.2	5 54.7	5 54.1	5 53.6	5 53.0	5 52.3	5 51.6	5 50.9	5 50.1	5 49.3
2	5 58.1	5 57.7	5 57.4	5 57.1	5 56.7	5 56.3	5 55.9	5 55.5	5 55.1	5 54.6	5 54.1
— 1	6 0.4	6 0.2	6 0.1	6 0.0	5 59.8	5 59.7	5 59.5	5 59.4	5 59.2	5 59.0	5 58.9
0	6 2.7	6 2.7	6 2.8	6 2.9	6 2.9	6 3.0	6 3.1	6 3.2	6 3.4	6 3.5	6 3.6
+ 1	6 5.0	6 5.2	6 5.5	6 5.8	6 6.1	6 6.4	6 6.7	6 7.1	6 7.5	6 7.9	6 8.4
2	6 7.3	6 7.7	6 8.2	6 8.7	6 9.2	6 9.8	6 10.3	6 11.0	6 11.6	6 12.4	6 13.2
3	6 9.6	6 10.3	6 10.9	6 11.6	6 12.3	6 13.1	6 14.0	6 14.8	6 15.8	6 16.8	6 18.0
4	6 11.9	6 12.8	6 13.6	6 14.5	6 15.5	6 16.5	6 17.6	6 18.7	6 20.0	6 21.3	6 22.8
5	6 14.3	6 15.3	6 16.4	6 17.5	6 18.6	6 19.9	6 21.2	6 22.6	6 24.2	6 25.8	6 27.6
6	6 16.6	6 17.8	6 19.1	6 20.4	6 21.8	6 23.3	6 24.9	6 26.6	6 28.4	6 30.4	6 32.5
7	6 19.0	6 20.4	6 21.8	6 23.4	6 25.0	6 26.7	6 28.6	6 30.5	6 32.6	6 34.9	6 37.4
8	6 21.3	6 22.9	6 24.6	6 26.4	6 28.2	6 30.2	6 32.3	6 34.5	6 36.9	6 39.5	6 42.3
9	6 23.7	6 25.5	6 27.4	6 29.4	6 31.4	6 33.7	6 36.0	6 38.5	6 41.2	6 44.1	6 47.3
10	6 26.1	6 28.1	6 30.2	6 32.4	6 34.7	6 37.2	6 39.8	6 42.5	6 45.6	6 48.8	6 52.3
+11	6 28.5	6 30.7	6 33.0	6 35.4	6 38.0	6 40.7	6 43.6	6 46.6	6 49.9	6 53.5	6 57.4
12	6 31.0	6 33.4	6 35.9	6 38.5	6 41.3	6 44.3	6 47.4	6 50.8	6 54.4	6 58.3	7 2.5
13	6 33.4	6 36.0	6 38.8	6 41.6	6 44.7	6 47.9	6 51.3	6 54.9	6 58.9	7 3.1	7 7.8
14	6 35.9	6 38.7	6 41.7	6 44.8	6 48.0	6 51.5	6 55.2	6 59.2	7 3.4	7 8.0	7 13.1
15	6 38.4	6 41.4	6 44.6	6 47.9	6 51.5	6 55.2	6 59.2	7 3.5	7 8.1	7 13.0	7 18.5
16	6 41.0	6 44.2	6 47.6	6 51.2	6 54.9	6 58.9	7 3.2	7 7.8	7 12.7	7 18.1	7 23.9
17	6 43.5	6 47.0	6 50.6	6 54.4	6 58.5	7 2.7	7 7.3	7 12.2	7 17.5	7 23.3	7 29.5
18	6 46.1	6 49.8	6 53.7	6 57.7	7 2.0	7 6.6	7 11.5	7 16.7	7 22.4	7 28.5	7 35.3
19	6 48.8	6 52.7	6 56.8	7 1.1	7 5.7	7 10.5	7 15.7	7 21.3	7 27.4	7 33.9	7 41.1
20	6 51.5	6 55.6	6 59.9	7 4.5	7 9.4	7 14.5	7 20.1	7 26.0	7 32.4	7 39.4	7 47.1
+21	6 54.2	6 58.6	7 3.1	7 8.0	7 13.1	7 18.6	7 24.5	7 30.8	7 37.6	7 45.1	7 53.3
22	6 56.9	7 1.6	7 6.4	7 11.5	7 17.0	7 22.8	7 29.0	7 35.7	7 42.9	7 50.9	7 59.6
23	6 59.8	7 4.6	7 9.7	7 15.1	7 20.9	7 27.0	7 33.6	7 40.7	7 48.4	7 56.8	8 6.1
24	7 2.6	7 7.7	7 13.1	7 18.8	7 24.9	7 31.3	7 38.3	7 45.8	7 54.0	8 2.9	8 12.9
25	7 5.6	7 10.9	7 16.6	7 22.6	7 29.0	7 35.8	7 43.1	7 51.1	7 59.8	8 9.3	8 19.9
26	7 8.5	7 14.2	7 20.1	7 26.4	7 33.2	7 40.4	7 48.1	7 56.5	8 5.7	8 15.8	8 27.1
27	7 11.6	7 17.5	7 23.8	7 30.4	7 37.5	7 45.0	7 53.2	8 2.1	8 11.8	8 22.6	8 34.7
28	7 14.7	7 20.9	7 27.5	7 34.4	7 41.9	7 49.9	7 58.5	8 7.9	8 18.2	8 29.7	8 42.6
29	7 17.9	7 24.4	7 31.3	7 38.6	7 46.4	7 54.8	8 3.9	8 13.9	8 24.8	8 37.1	8 51.0
+30	7 21.2	7 28.0	7 35.2	7 42.9	7 51.1	7 59.9	8 9.5	8 20.1	8 31.7	8 44.8	8 59.7

δ \ φ	+50	+51	+52	+53	+54	+55	+56	+57	+58	+59	+60°
	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	3 11.8	3 4.1	2 55.8	2 46.8	2 36.9	2 25.9	2 13.5	1 59.3	1 42.4	1 21.1	0 49.7
29	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1	2 27.1	2 14.7	2 0.4	1 43.4	1 21.9
28	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3	2 39.4	2 28.4	2 15.9	2 1.6	1 44.5
27	3 35.5	3 29.3	3 22.7	3 15.7	3 8.0	2 59.8	2 50.8	2 40.8	2 29.8	2 17.3	2 2.9
26	3 42.8	3 37.0	3 30.8	3 24.2	3 17.2	3 9.6	3 1.4	2 52.4	2 42.4	2 31.3	2 18.8
25	3 49.7	3 44.3	3 38.6	3 32.4	3 25.9	3 18.9	3 11.3	3 3.1	2 54.1	2 44.1	2 33.0
24	3 56.5	3 51.4	3 46.0	3 40.3	3 34.3	3 27.8	3 20.8	3 13.2	3 5.0	2 56.0	2 46.0
23	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2	3 29.8	3 22.8	3 15.3	3 7.1	2 58.0
22	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3	3 38.4	3 31.9	3 25.0	3 17.5	3 9.3
21	4 15.4	4 11.3	4 6.9	4 2.3	3 57.4	3 52.2	3 46.6	3 40.7	3 34.3	3 27.4	3 19.9
−20	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.8	3 54.6	3 49.1	3 43.2	3 36.9	3 30.0
19	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1	4 2.3	3 57.2	3 51.8	3 45.9	3 39.6
18	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2	4 9.8	4 5.1	4 0.1	3 54.7	3 48.9
17	4 38.6	4 35.4	4 32.1	4 28.7	4 25.0	4 21.1	4 17.0	4 12.7	4 8.1	4 3.1	3 57.8
16	4 44.1	4 41.2	4 38.1	4 34.9	4 31.5	4 27.9	4 24.1	4 20.1	4 15.9	4 11.3	4 6.4
15	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5	4 31.0	4 27.4	4 23.4	4 19.3	4 14.8
14	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0	4 37.8	4 34.4	4 30.8	4 27.0	4 22.9
13	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4	4 44.5	4 41.4	4 38.1	4 34.6	4 30.9
12	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7	4 51.0	4 48.2	4 45.2	4 42.0	4 38.7
11	5 10.2	5 8.3	5 6.4	5 4.3	5 2.1	4 59.8	4 57.4	4 54.9	4 52.2	4 49.3	4 46.3
−10	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9	5 3.7	5 1.5	4 59.1	4 56.5	4 53.8
9	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9	5 10.0	5 8.0	5 5.8	5 3.6	5 1.2
8	5 25.1	5 23.8	5 22.4	5 21.0	5 19.5	5 17.9	5 16.2	5 14.4	5 12.5	5 10.6	5 8.5
7	5 30.0	5 28.9	5 27.7	5 26.4	5 25.1	5 23.8	5 22.3	5 20.8	5 19.2	5 17.5	5 15.7
6	5 34.9	5 33.9	5 32.9	5 31.8	5 30.7	5 29.6	5 28.4	5 27.1	5 25.7	5 24.3	5 22.8
5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4	5 34.4	5 33.4	5 32.2	5 31.1	5 29.9
4	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2	5 40.4	5 39.6	5 38.7	5 37.8	5 36.9
3	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9	5 46.3	5 45.8	5 45.2	5 44.5	5 43.8
2	5 54.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6	5 52.3	5 52.0	5 51.6	5 51.2	5 50.8
− 1	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3	5 58.2	5 58.1	5 58.0	5 57.9	5 57.7
0	6 3.6	6 3.7	6 3.8	6 3.9	6 4.0	6 4.1	6 4.2	6 4.3	6 4.4	6 4.5	6 4.7
+ 1	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8	6 10.1	6 10.4	6 10.8	6 11.2	6 11.6
2	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5	6 16.0	6 16.6	6 17.2	6 17.8	6 18.5
3	6 18.0	6 18.6	6 19.2	6 19.8	6 20.5	6 21.2	6 22.0	6 22.8	6 23.6	6 24.6	6 25.5
4	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0	6 28.0	6 29.0	6 30.1	6 31.3	6 32.5
5	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8	6 34.0	6 35.3	6 36.6	6 38.1	6 39.6
6	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7	6 40.1	6 41.6	6 43.2	6 44.9	6 46.7
7	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6	6 46.2	6 48.0	6 49.8	6 51.8	6 53.9
8	6 42.3	6 43.8	6 45.3	6 47.0	6 48.7	6 50.5	6 52.4	6 54.4	6 56.5	6 58.8	7 1.2
9	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5	6 58.7	7 0.9	7 3.3	7 5.9	7 8.6
10	6 52.3	6 54.2	6 56.1	6 58.2	7 0.3	7 2.6	7 5.0	7 7.5	7 10.2	7 13.1	7 16.2
+11	6 57.4	6 59.4	7 1.6	7 3.9	7 6.3	7 8.8	7 11.4	7 14.2	7 17.2	7 20.4	7 23.8
12	7 2.5	7 4.8	7 7.2	7 9.7	7 12.3	7 15.1	7 18.0	7 21.1	7 24.3	7 27.8	7 31.5
13	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4	7 24.6	7 28.0	7 31.6	7 35.4	7 39.5
14	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9	7 31.4	7 35.1	7 39.0	7 43.2	7 47.7
15	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6	7 38.3	7 42.4	7 46.6	7 51.2	7 56.1
16	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4	7 45.4	7 49.8	7 54.4	7 59.4	8 4.7
17	7 29.5	7 32.9	7 36.5	7 40.2	7 44.1	7 48.3	7 52.7	7 57.4	8 2.5	8 7.9	8 13.7
18	7 35.3	7 38.9	7 42.7	7 46.7	7 50.9	7 55.4	8 0.2	8 5.3	8 10.8	8 16.6	8 23.0
19	7 41.1	7 45.0	7 49.1	7 53.4	7 57.9	8 2.8	8 7.9	8 13.4	8 19.4	8 25.7	8 32.6
20	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4	8 15.9	8 21.9	8 28.3	8 35.2	8 42.8
+21	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2	8 24.2	8 30.7	8 37.6	8 45.2	8 53.5
22	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4	8 32.8	8 39.8	8 47.4	8 55.7	9 4.8
23	8 6.1	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9	8 41.9	8 49.5	8 57.7	9 6.8	9 16.9
24	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8	8 51.4	8 59.6	9 8.7	9 18.8	9 30.0
25	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1	9 1.4	9 10.5	9 20.5	9 31.7	9 44.4
26	8 27.1	8 33.4	8 40.0	8 47.0	8 54.7	9 3.0	9 12.1	9 22.1	9 33.2	9 45.9	10 0.6
27	8 34.7	8 41.4	8 48.5	8 56.1	9 4.4	9 13.5	9 23.5	9 34.6	9 47.3	10 1.9	10 19.5
28	8 42.6	8 49.8	8 57.5	9 5.8	9 14.8	9 24.8	9 35.9	9 48.5	10 3.1	10 20.5	10 42.9
29	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1	9 49.6	10 4.1	10 21.5	10 43.7	11 18.1
+30	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7	10 5.1	10 22.3	10 44.4	11 18.5	—

Reduktionstafel

für den Auf- und Untergang der Sonne

Das Vorzeichen gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

12h Welt-Zeit	Geographische Breite										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
1930	m	m	m	m	m	m	m	m	m	m	m
Jan. 1	−62.7	−58.0	−53.1	−48.0	−42.6	−36.7	−30.5	−23.8	−16.5	−8.7	0.0
11	−58.6	−54.1	−49.6	−44.7	−39.7	−34.2	−28.4	−22.1	−15.4	−8.0	0.0
21	−52.4	−48.4	−44.2	−39.8	−35.3	−30.4	−25.2	−19.7	−13.7	−7.1	0.0
31	−44.6	−41.2	−37.6	−33.9	−29.9	−25.8	−21.3	−16.6	−11.6	−6.0	0.0
Febr. 10	−35.8	−33.1	−30.2	−27.2	−24.0	−20.6	−17.0	−13.2	− 9.2	−4.8	0.0
20	−26.5	−24.5	−22.3	−20.1	−17.8	−15.2	−12.5	− 9.7	− 6.7	−3.5	0.0
März 2	−16.9	−15.6	−14.2	−12.8	−11.3	− 9.6	− 7.9	− 6.1	− 4.2	−2.2	0.0
12	− 7.2	− 6.7	− 6.1	− 5.5	− 4.8	− 4.0	− 3.3	− 2.6	− 1.8	−0.9	0.0
22	+ 2.5	+ 2.3	+ 2.1	+ 2.0	+ 1.7	+ 1.6	+ 1.3	+ 1.0	+ 0.7	+0.3	0.0
April 1	+12.1	+11.2	+10.2	+ 9.3	+ 8.2	+ 7.1	+ 5.9	+ 4.6	+ 3.2	+1.6	0.0
11	+21.8	+20.1	+18.4	+16.6	+14.6	+12.6	+10.4	+ 8.2	+ 5.6	+2.9	0.0
21	+31.3	+28.8	+26.4	+23.8	+21.0	+18.1	+15.0	+11.7	+ 8.1	+4.2	0.0
Mai 1	+40.4	+37.3	+34.1	+30.8	+27.3	+23.5	+19.6	+15.2	+10.6	+5.5	0.0
11	+49.0	+45.3	+41.4	+37.5	+33.3	+28.6	+23.8	+18.5	+12.9	+6.7	0.0
21	+56.6	+52.5	+48.1	+43.4	+38.6	+33.2	+27.6	+21.6	+15.0	+7.8	0.0
31	+62.9	+58.4	+53.5	+48.3	+42.9	+37.0	+30.8	+24.1	+16.8	+8.8	0.0
Juni 10	+67.1	+62.2	+57.1	+51.6	+45.8	+39.6	+33.0	+25.9	+18.0	+9.5	0.0
20	+68.8	+63.8	+58.6	+52.9	+47.0	+40.7	+33.9	+26.6	+18.5	+9.8	0.0
30	+67.9	+62.9	+57.8	+52.2	+46.4	+40.1	+33.4	+26.2	+18.2	+9.6	0.0
Juli 10	+64.5	+59.7	+54.8	+49.5	+44.0	+38.0	+31.6	+24.8	+17.2	+9.1	0.0
20	+59.0	+54.5	+50.0	+45.1	+40.1	+34.6	+28.7	+22.5	+15.6	+8.2	0.0
30	+51.8	+47.9	+44.0	+39.5	+35.1	+30.2	+25.1	+19.6	+13.6	+7.1	0.0
Aug. 9	+43.6	+40.3	+36.9	+33.2	+29.4	+25.3	+21.0	+16.4	+11.4	+5.9	0.0
19	+34.7	+32.1	+29.3	+26.4	+23.3	+20.1	+16.7	+12.9	+ 9.0	+4.7	0.0
29	+25.4	+23.5	+21.5	+19.4	+17.0	+14.7	+12.2	+ 9.4	+ 6.6	+3.4	0.0
Sept. 8	+16.0	+14.7	+13.5	+12.2	+10.8	+ 9.2	+ 7.6	+ 5.9	+ 4.1	+2.1	0.0
18	+ 6.5	+ 5.9	+ 5.4	+ 4.9	+ 4.4	+ 3.7	+ 3.0	+ 2.4	+ 1.7	+0.9	0.0
28	− 3.2	− 2.9	− 2.6	− 2.3	− 2.0	− 1.8	− 1.5	− 1.1	− 0.8	−0.4	0.0
Okt. 8	−12.8	−11.7	−10.6	− 9.6	− 8.4	− 7.3	− 6.0	− 4.7	− 3.2	−1.6	0.0
18	−22.3	−20.5	−18.7	−16.8	−14.8	−12.8	−10.5	− 8.2	− 5.6	−2.9	0.0
28	−31.6	−29.1	−26.6	−23.9	−21.2	−18.2	−15.0	−11.7	− 8.1	−4.2	0.0
Nov. 7	−40.5	−37.4	−34.2	−30.8	−27.3	−23.4	−19.4	−15.1	−10.4	−5.5	0.0
17	−48.8	−45.1	−41.2	−37.3	−32.9	−28.3	−23.5	−18.3	−12.7	−6.7	0.0
27	−55.9	−51.7	−47.3	−42.7	−37.8	−32.5	−27.1	−21.1	−14.7	−7.7	0.0
Dez. 7	−61.1	−56.5	−51.7	−46.7	−41.4	−35.7	−29.7	−23.2	−16.1	−8.5	0.0
17	−63.9	−59.1	−54.1	−48.9	−43.3	−37.4	−31.1	−24.3	−16.9	−8.9	0.0
27	−63.9	−59.1	−54.1	−48.9	−43.3	−37.4	−31.1	−24.3	−16.9	−8.9	0.0
37	−61.1	−56.5	−51.7	−46.7	−41.4	−35.7	−29.7	−23.2	−16.1	−8.4	0.0

Reduktionstafel

für den Auf- und Untergang der Sonne

Das Vorzeichen gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

12ʰ Welt-Zeit	Geographische Breite										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1930	m	m	m	m	m	m	m	m	m	m	m
Jan. 1	0.0	+4.7	+ 9.6	+14.8	+20.5	+26.4	+32.8	+39.6	+47.0	+55.1	+63.9
11	0.0	+4.4	+ 8.9	+13.8	+18.8	+24.4	+30.2	+36.4	+43.1	+50.4	+58.4
21	0.0	+3.8	+ 7.9	+12.1	+16.6	+21.3	+26.4	+31.8	+37.5	+43.8	+50.5
31	0.0	+3.2	+ 6.6	+10.1	+13.8	+17.8	+22.0	+26.4	+31.2	+36.3	+41.7
Febr. 10	0.0	+2.5	+ 5.2	+ 8.0	+10.9	+14.1	+17.3	+20.7	+24.5	+28.4	+32.6
20	0.0	+1.8	+ 3.8	+ 5.8	+ 7.9	+10.2	+12.6	+15.0	+17.8	+20.6	+23.5
März 2	0.0	+1.2	+ 2.4	+ 3.7	+ 5.0	+ 6.4	+ 7.9	+ 9.4	+11.2	+12.9	+14.6
12	0.0	+0.5	+ 1.0	+ 1.5	+ 2.1	+ 2.7	+ 3.3	+ 3.9	+ 4.6	+ 5.4	+ 6.1
22	0.0	−0.2	− 0.4	− 0.6	− 0.8	− 1.1	− 1.4	− 1.6	− 1.8	− 2.1	− 2.5
April 1	0.0	−0.9	− 1.8	− 2.7	− 3.8	− 4.8	− 6.0	− 7.2	− 8.3	− 9.7	−11.0
11	0.0	−1.5	− 3.2	− 4.9	− 6.8	− 8.6	−10.6	−12.8	−14.9	−17.3	−19.8
21	0.0	−2.2	− 4.6	− 7.1	− 9.8	−12.5	−15.4	−18.5	−21.7	−25.1	−28.9
Mai 1	0.0	−3.0	− 6.1	− 9.3	−12.8	−16.4	−20.2	−24.3	−28.5	−33.1	−38.1
11	0.0	−3.6	− 7.4	−11.4	−15.7	−20.2	−24.9	−30.1	−35.5	−41.3	−47.6
21	0.0	−4.2	− 8.7	−13.4	−18.4	−23.8	−29.5	−35.7	−42.2	−49.3	−57.1
31	0.0	−4.7	− 9.8	−15.2	−20.8	−27.0	−33.5	−40.6	−48.2	−56.4	−65.6
Juni 10	0.0	−5.1	−10.6	−16.4	−22.6	−29.2	−36.3	−44.1	−52.5	−61.8	−72.2
20	0.0	−5.3	−10.9	−16.9	−23.3	−30.2	−37.5	−45.6	−54.4	−64.0	−75.1
30	0.0	−5.2	−10.7	−16.6	−22.9	−29.6	−36.9	−44.8	−53.4	−62.8	−73.6
Juli 10	0.0	−4.9	−10.1	−15.6	−21.5	−27.8	−34.5	−41.8	−49.7	−58.5	−68.1
20	0.0	−4.4	− 9.1	−14.0	−19.3	−24.9	−30.9	−37.3	−44.3	−51.9	−60.2
30	0.0	−3.8	− 7.9	−12.1	−16.6	−21.4	−26.5	−32.0	−37.9	−44.2	−51.0
Aug. 9	0.0	−3.2	− 6.5	−10.0	−13.8	−17.7	−21.9	−26.3	−31.1	−36.1	−41.5
19	0.0	−2.5	− 5.1	− 7.8	−10.8	−13.8	−17.1	−20.5	−24.3	−28.1	−32.3
29	0.0	−1.8	− 3.7	− 5.7	− 7.8	−10.0	−12.3	−14.8	−17.5	−20.3	−23.2
Sept. 8	0.0	−1.2	− 2.3	− 3.6	− 4.9	− 6.2	− 7.7	− 9.2	−10.9	−12.7	−14.5
18	0.0	−0.5	− 0.9	− 1.5	− 2.0	− 2.5	− 3.1	− 3.7	− 4.5	− 5.2	− 5.9
28	0.0	+0.2	+ 0.5	+ 0.6	+ 0.9	+ 1.2	+ 1.4	+ 1.7	+ 1.9	+ 2.2	+ 2.5
Okt. 8	0.0	+0.9	+ 1.8	+ 2.8	+ 3.8	+ 4.9	+ 6.0	+ 7.1	+ 8.3	+ 9.6	+10.9
18	0.0	+1.6	+ 3.2	+ 4.9	+ 6.7	+ 8.6	+10.5	+12.6	+14.8	+17.1	+19.6
28	0.0	+2.2	+ 4.6	+ 7.0	+ 9.6	+12.4	+15.2	+18.2	+21.4	+24.7	+28.4
Nov. 7	0.0	+2.9	+ 6.0	+ 9.1	+12.6	+16.1	+19.9	+23.8	+28.0	+32.5	+37.5
17	0.0	+3.6	+ 7.3	+11.2	+15.4	+19.7	+24.4	+29.4	+34.6	+40.2	+46.4
27	0.0	+4.1	+ 8.4	+13.1	+17.9	+23.0	+28.5	+34.4	+40.7	+47.4	+54.8
Dez. 7	0.0	+4.6	+ 9.3	+14.5	+19.8	+25.6	+31.8	+38.3	+45.5	+53.2	+61.6
17	0.0	+4.8	+ 9.8	+15.2	+20.9	+27.0	+33.5	+40.5	+48.2	+56.4	+65.6
27	0.0	+4.8	+ 9.8	+15.2	+20.9	+27.0	+33.5	+40.5	+48.2	+56.4	+65.6
37	0.0	+4.6	+ 9.3	+14.4	+19.8	+25.6	+31.8	+38.3	+45.4	+53.2	+61.6

Reduktionstafel

für Auf- und Untergang des Mondes

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

t*)	Geographische Breite φ										
	+30	+32	+34	+36	+38	+40	+42	+44	+46	+48	+50
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	−94.6	−87.9	−80.9	−73.4	−65.5	−56.9	−47.6	−37.5	−26.4	−14.0	0.0
3 30	−88.5	−82.2	−75.6	−68.5	−61.0	−52.9	−44.2	−34.8	−24.4	−12.9	0.0
3 40	−82.5	−76.5	−70.3	−63.7	−56.6	−49.1	−41.0	−32.2	−22.5	−11.9	0.0
3 50	−76.6	−71.0	−65.2	−59.0	−52.4	−45.3	−37.8	−29.6	−20.7	−10.9	0.0
4 0	−70.8	−65.6	−60.1	−54.4	−48.2	−41.7	−34.7	−27.2	−18.9	− 9.9	0.0
4 10	−65.1	−60.3	−55.2	−49.9	−44.2	−38.2	−31.7	−24.8	−17.3	− 9.0	0.0
4 20	−59.5	−55.0	−50.3	−45.5	−40.3	−34.8	−28.9	−22.5	−15.7	− 8.2	0.0
4 30	−54.0	−49.9	−45.6	−41.2	−36.5	−31.4	−26.1	−20.4	−14.1	− 7.4	0.0
4 40	−48.4	−44.8	−40.9	−36.9	−32.7	−28.2	−23.3	−18.2	−12.6	− 6.6	0.0
4 50	−43.0	−39.8	−36.4	−32.7	−29.0	−24.9	−20.7	−16.1	−11.2	− 5.8	0.0
5 0	−37.7	−34.8	−31.8	−28.6	−25.3	−21.8	−18.1	−14.1	− 9.8	− 5.0	0.0
5 10	−32.4	−29.9	−27.3	−24.6	−21.7	−18.7	−15.5	−12.1	− 8.4	− 4.3	0.0
5 20	−27.1	−25.0	−22.8	−20.6	−18.2	−15.6	−12.9	−10.1	− 7.0	− 3.6	0.0
5 30	−21.9	−20.2	−18.4	−16.6	−14.7	−12.6	−10.4	− 8.1	− 5.6	− 2.9	0.0
5 40	−16.7	−15.4	−14.0	−12.6	−11.2	− 9.6	− 7.9	− 6.2	− 4.3	− 2.2	0.0
5 50	−11.5	−10.6	− 9.7	− 8.7	− 7.7	− 6.6	− 5.5	− 4.2	− 2.9	− 1.5	0.0
6 0	− 6.4	− 5.8	− 5.4	− 4.8	− 4.2	− 3.6	− 3.0	− 2.3	− 1.6	− 0.9	0.0
6 10	− 1.2	− 1.1	− 1.0	− 0.9	− 0.8	− 0.7	− 0.6	− 0.4	− 0.3	− 0.2	0.0
6 20	+ 4.0	+ 3.7	+ 3.4	+ 3.0	+ 2.6	+ 2.3	+ 1.9	+ 1.5	+ 1.0	+ 0.5	0.0
6 30	+ 9.1	+ 8.4	+ 7.7	+ 6.9	+ 6.1	+ 5.3	+ 4.4	+ 3.4	+ 2.4	+ 1.2	0.0
6 40	+14.3	+13.2	+12.0	+10.8	+ 9.6	+ 8.2	+ 6.8	+ 5.3	+ 3.7	+ 1.9	0.0
6 50	+19.5	+18.0	+16.4	+14.8	+13.1	+11.2	+ 9.3	+ 7.2	+ 5.0	+ 2.6	0.0
7 0	+24.7	+22.8	+20.9	+18.8	+16.6	+14.2	+11.8	+ 9.1	+ 6.3	+ 3.3	0.0
7 10	+30.0	+27.7	+25.3	+22.8	+20.1	+17.3	+14.3	+11.1	+ 7.7	+ 4.0	0.0
7 20	+35.3	+32.6	+29.7	+26.8	+23.7	+20.3	+16.8	+13.1	+ 9.1	+ 4.7	0.0
7 30	+40.6	+37.5	+34.3	+30.9	+27.3	+23.4	+19.4	+15.1	+10.5	+ 5.5	0.0
7 40	+45.9	+42.5	+38.9	+35.0	+31.0	+26.6	+22.1	+17.2	+12.0	+ 6.2	0.0
7 50	+51.4	+47.6	+43.5	+39.2	+34.7	+29.9	+24.8	+19.3	+13.5	+ 7.0	0.0
8 0	+56.9	+52.7	+48.2	+43.5	+38.5	+33.2	+27.6	+21.5	+15.0	+ 7.8	0.0
8 10	+62.5	+57.9	+53.0	+47.9	+42.4	+36.6	+30.4	+23.8	+16.6	+ 8.6	0.0
8 20	+68.2	+63.2	+57.9	+52.3	+46.4	+40.1	+33.3	+26.1	+18.2	+ 9.5	0.0
8 30	+74.0	+68.5	+62.9	+56.9	+50.5	+43.7	+36.4	+28.5	+19.8	+10.5	0.0
8 40	+79.8	+74.0	+67.9	+61.5	+54.7	+47.3	+39.5	+30.9	+21.6	+11.4	0.0
8 50	+85.8	+79.6	+73.1	+66.3	+59.0	+51.1	+42.7	+33.5	+23.5	+12.5	0.0
9 0	+91.9	+85.3	+78.4	+71.2	+63.4	+55.0	+46.0	+36.3	+25.5	+13.5	0.0

*) *t* ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

Reduktionstafel

für Auf- und Untergang des Mondes

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

t*)	Geographische Breite φ										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	0.0	+7.7	+16.1	+25.2	+35.1	+46.1	+58.4	+72.5	+89.1	+109.7	+138.1
3 30	0.0	+7.1	+14.7	+22.9	+31.8	+41.6	+52.4	+64.5	+78.3	+ 94.5	+114.3
3 40	0.0	+6.5	+13.4	+20.9	+28.9	+37.6	+47.2	+57.7	+69.4	+ 82.7	+ 98.2
3 50	0.0	+5.9	+12.2	+19.0	+26.2	+34.0	+42.5	+51.7	+61.9	+ 73.3	+ 86.1
4 0	0.0	+5.4	+11.1	+17.2	+23.7	+30.8	+38.2	+46.3	+55.2	+ 65.0	+ 76.0
4 10	0.0	+4.9	+10.1	+15.6	+21.4	+27.7	+34.4	+41.6	+49.4	+ 57.9	+ 67.3
4 20	0.0	+4.5	+ 9.1	+14.0	+19.2	+24.8	+30.8	+37.2	+44.0	+ 51.5	+ 59.6
4 30	0.0	+4.0	+ 8.1	+12.5	+17.2	+22.2	+27.5	+33.1	+39.1	+ 45.7	+ 52.7
4 40	0.0	+3.5	+ 7.3	+11.2	+15.3	+19.7	+24.3	+29.3	+34.5	+ 40.2	+ 46.3
4 50	0.0	+3.1	+ 6.4	+ 9.8	+13.4	+17.3	+21.4	+25.6	+30.2	+ 35.1	+ 40.4
5 0	0.0	+2.7	+ 5.5	+ 8.5	+11.6	+15.0	+18.5	+22.2	+26.1	+ 30.3	+ 34.8
5 10	0.0	+2.3	+ 4.7	+ 7.2	+10.0	+12.8	+15.7	+18.9	+22.2	+ 25.7	+ 29.5
5 20	0.0	+2.0	+ 3.9	+ 6.0	+ 8.3	+10.7	+13.1	+15.7	+18.4	+ 21.3	+ 24.4
5 30	0.0	+1.6	+ 3.2	+ 4.8	+ 6.7	+ 8.5	+10.5	+12.6	+14.8	+ 17.1	+ 19.6
5 40	0.0	+1.2	+ 2.4	+ 3.7	+ 5.0	+ 6.5	+ 7.9	+ 9.5	+11.2	+ 13.0	+ 14.8
5 50	0.0	+0.8	+ 1.7	+ 2.6	+ 3.4	+ 4.4	+ 5.5	+ 6.5	+ 7.7	+ 8.9	+ 10.2
6 0	0.0	+0.5	+ 0.9	+ 1.4	+ 1.9	+ 2.4	+ 3.0	+ 3.6	+ 4.2	+ 4.9	+ 5.6
6 10	0.0	+0.1	+ 0.2	+ 0.2	+ 0.4	+ 0.5	+ 0.6	+ 0.7	+ 0.8	+ 0.9	+ 1.1
6 20	0.0	−0.3	− 0.6	− 0.9	− 1.2	− 1.5	− 1.9	− 2.3	− 2.6	− 3.0	− 3.5
6 30	0.0	−0.6	− 1.3	− 2.0	− 2.7	− 3.5	− 4.3	− 5.2	− 6.0	− 7.0	− 8.0
6 40	0.0	−1.0	− 2.1	− 3.1	− 4.3	− 5.5	− 6.8	− 8.1	− 9.5	− 11.0	− 12.6
6 50	0.0	−1.3	− 2.9	− 4.3	− 5.9	− 7.5	− 9.4	−11.2	−13.1	− 15.1	− 17.3
7 0	0.0	−1.7	− 3.6	− 5.5	− 7.5	− 9.6	−11.9	−14.2	−16.7	− 19.3	− 22.2
7 10	0.0	−2.1	− 4.4	− 6.7	− 9.2	−11.7	−14.5	−17.4	−20.4	− 23.7	− 27.1
7 20	0.0	−2.5	− 5.1	− 7.9	−10.8	−13.8	−17.1	−20.6	−24.2	− 28.1	− 32.3
7 30	0.0	−2.9	− 6.0	− 9.2	−12.6	−16.1	−19.9	−24.0	−28.2	− 32.8	− 37.7
7 40	0.0	−3.3	− 6.9	−10.6	−14.4	−18.5	−22.9	−27.5	−32.4	− 37.8	− 43.4
7 50	0.0	−3.8	− 7.7	−12.0	−16.3	−21.0	−25.9	−31.3	−36.9	− 43.0	− 49.6
8 0	0.0	−4.2	− 8.7	−13.4	−18.3	−23.7	−29.2	−35.3	−41.7	− 48.7	− 56.3
8 10	0.0	−4.7	− 9.6	−14.9	−20.4	−26.4	−32.6	−39.5	−46.8	− 54.8	− 63.5
8 20	0.0	−5.2	−10.6	−16.4	−22.6	−29.2	−36.3	−44.0	−52.3	− 61.5	− 71.6
8 30	0.0	−5.7	−11.7	−18.1	−25.0	−32.4	−40.4	−49.1	−58.6	− 69.1	− 81.0
8 40	0.0	−6.3	−12.9	−19.9	−27.6	−35.8	−44.9	−54.9	−65.7	− 77.9	− 92.1
8 50	0.0	−6.8	−14.1	−21.9	−30.5	−39.7	−49.8	−61.2	−73.8	− 88.5	−106.1
9 0	0.0	−7.4	−15.4	−24.1	−33.7	−44.1	−55.3	−68.4	−83.6	−101.4	−125.9

*) t ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

Julianische Periode

I. Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	99951	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	98647	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	99299	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

Ia. Anzahl der am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Julianische Periode

I. Anzahl der am o. Januar, 12^h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]	51544
	21	21	21	22	22	23	23	23	24	24

[1]) Die Zahlen geben die am —1. Jan. seit Anfang der Periode verflossenen Tage

Ia. Anzahl der am o. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o
0	0[2])	31[2])	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern

[2]) In den Jahren 1700, 1800, 1900 um 1 zu vergrößern

Julianische Periode

II. Anzahl der seit Beginn der Periode am 0. jedes Monats, 12^h Welt-Zeit, verflossenen Tage

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1860	2400	410	441	470	501	531	562	592	623	654	684	715	745
1861		776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401	141	172	200	231	261	292	322	353	384	414	445	475
1863		506	537	565	596	626	657	687	718	749	779	810	840
1864		871	902	931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402	237	268	296	327	357	388	418	449	480	510	541	571
1866		602	633	661	692	722	753	783	814	845	875	906	936
1867		967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403	332	363	392	423	453	484	514	545	576	606	637	667
1869		698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404	063	094	122	153	183	214	244	275	306	336	367	397
1871		428	459	487	518	548	579	609	640	671	701	732	762
1872		793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405	159	190	218	249	279	310	340	371	402	432	463	493
1874		524	555	583	614	644	675	705	736	767	797	828	858
1875		889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406	254	285	314	345	375	406	436	467	498	528	559	589
1877		620	651	679	710	740	771	801	832	863	893	924	954
1878		985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407	350	381	409	440	470	501	531	562	593	623	654	684
1880		715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408	081	112	140	171	201	232	262	293	324	354	385	415
1882		446	477	505	536	566	597	627	658	689	719	750	780
1883		811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409	176	207	236	267	297	328	358	389	420	450	481	511
1885		542	573	601	632	662	693	723	754	785	815	846	876
1886		907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410	272	303	331	362	392	423	453	484	515	545	576	606
1888		637	668	697	728	758	789	819	850	881	911	942	972
1889	2411	003	034	062	093	123	154	184	215	246	276	307	337
1890		368	399	427	458	488	519	549	580	611	641	672	702
1891		733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412	098	129	158	189	219	250	280	311	342	372	403	433
1893		464	495	523	554	584	615	645	676	707	737	768	798
1894		829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413	194	225	253	284	314	345	375	406	437	467	498	528
1896		559	590	619	650	680	711	741	772	803	833	864	894
1897		925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414	290	321	349	380	410	441	471	502	533	563	594	624
1899		655	686	714	745	775	806	836	867	898	928	959	989

Julianische Periode

II. Anzahl der seit Beginn der Periode am 0. jedes Monats, 12h Welt-Zeit, verflossenen Tage

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1900	2415	020	051	079	110	140	171	201	232	263	293	324	354
1901		385	416	444	475	505	536	566	597	628	658	689	719
1902		750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416	115	146	174	205	235	266	296	327	358	388	419	449
1904		480	511	540	571	601	632	662	693	724	754	785	815
1905		846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417	211	242	270	301	331	362	392	423	454	484	515	545
1907		576	607	635	666	696	727	757	788	819	849	880	910
1908		941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418	307	338	366	397	427	458	488	519	550	580	611	641
1910		672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419	037	068	096	127	157	188	218	249	280	310	341	371
1912		402	433	462	493	523	554	584	615	646	676	707	737
1913		768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420	133	164	192	223	253	284	314	345	376	406	437	467
1915		498	529	557	588	618	649	679	710	741	771	802	832
1916		863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421	229	260	288	319	349	380	410	441	472	502	533	563
1918		594	625	653	684	714	745	775	806	837	867	898	928
1919		959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422	324	355	384	415	445	476	506	537	568	598	629	659
1921		690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423	055	086	114	145	175	206	236	267	298	328	359	389
1923		420	451	479	510	540	571	601	632	663	693	724	754
1924		785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424	151	182	210	241	271	302	332	363	394	424	455	485
1926		516	547	575	606	636	667	697	728	759	789	820	850
1927		881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425	246	277	306	337	367	398	428	459	490	520	551	581
1929		612	643	671	702	732	763	793	824	855	885	916	946
1930		977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426	342	373	401	432	462	493	523	554	585	615	646	676
1932		707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427	073	104	132	163	193	224	254	285	316	346	377	407
1934		438	469	497	528	558	589	619	650	681	711	742	772
1935		803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428	168	199	228	259	289	320	350	381	412	442	473	503
1937		534	565	593	624	654	685	715	746	777	807	838	868
1938		899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429	264	295	323	354	384	415	445	476	507	537	568	598

Red.	0^m	1^m	2^m	3^m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 5 15	12 10 29	18 15 44	0.00	0 0	0.50	3 3
1	0 6 5	6 11 20	12 16 34	18 21 49	0.01	0 4	0.51	3 6
2	0 12 10	6 17 25	12 22 40	18 27 54	0.02	0 7	0.52	3 10
3	0 18 16	6 23 30	12 28 45	18 33 59	0.03	0 11	0.53	3 14
4	0 24 21	6 29 36	12 34 50	18 40 5	0.04	0 15	0.54	3 17
5	0 30 26	6 35 41	12 40 55	18 46 10	0.05	0 18	0.55	3 21
6	0 36 31	6 41 46	12 47 1	18 52 15	0.06	0 22	0.56	3 25
7	0 42 37	6 47 51	12 53 6	18 58 20	0.07	0 26	0.57	3 28
8	0 48 42	6 53 56	12 59 11	19 4 26	0.08	0 29	0.58	3 32
9	0 54 47	7 0 2	13 5 16	19 10 31	0.09	0 33	0.59	3 35
10	1 0 52	7 6 7	13 11 21	19 16 36	0.10	0 37	0.60	3 39
11	1 6 58	7 12 12	13 17 27	19 22 41	0.11	0 40	0.61	3 43
12	1 13 3	7 18 17	13 23 32	19 28 47	0.12	0 44	0.62	3 46
13	1 19 8	7 24 23	13 29 37	19 34 52	0.13	0 47	0.63	3 50
14	1 25 13	7 30 28	13 35 42	19 40 57	0.14	0 51	0.64	3 54
15	1 31 19	7 36 33	13 41 48	19 47 2	0.15	0 55	0.65	3 57
16	1 37 24	7 42 38	13 47 53	19 53 7	0.16	0 58	0.66	4 1
17	1 43 29	7 48 44	13 53 58	19 59 13	0.17	1 2	0.67	4 5
18	1 49 34	7 54 49	14 0 3	20 5 18	0.18	1 6	0.68	4 8
19	1 55 40	8 0 54	14 6 9	20 11 23	0.19	1 9	0.69	4 12
20	2 1 45	8 6 59	14 12 14	20 17 28	0.20	1 13	0.70	4 16
21	2 7 50	8 13 5	14 18 19	20 23 34	0.21	1 17	0.71	4 19
22	2 13 55	8 19 10	14 24 24	20 29 39	0.22	1 20	0.72	4 23
23	2 20 1	8 25 15	14 30 30	20 35 44	0.23	1 24	0.73	4 27
24	2 26 6	8 31 20	14 36 35	20 41 49	0.24	1 28	0.74	4 30
25	2 32 11	8 37 26	14 42 40	20 47 55	0.25	1 31	0.75	4 34
26	2 38 16	8 43 31	14 48 45	20 54 0	0.26	1 35	0.76	4 38
27	2 44 22	8 49 36	14 54 51	21 0 5	0.27	1 39	0.77	4 41
28	2 50 27	8 55 41	15 0 56	21 6 10	0.28	1 42	0.78	4 45
29	2 56 32	9 1 47	15 7 1	21 12 16	0.29	1 46	0.79	4 49
30	3 2 37	9 7 52	15 13 6	21 18 21	0.30	1 50	0.80	4 52
31	3 8 43	9 13 57	15 19 12	21 24 26	0.31	1 53	0.81	4 56
32	3 14 48	9 20 2	15 25 17	21 30 31	0.32	1 57	0.82	4 59
33	3 20 53	9 26 8	15 31 22	21 36 37	0.33	2 1	0.83	5 3
34	3 26 58	9 32 13	15 37 27	21 42 42	0.34	2 4	0.84	5 7
35	3 33 3	9 38 18	15 43 33	21 48 47	0.35	2 8	0.85	5 10
36	3 39 9	9 44 23	15 49 38	21 54 52	0.36	2 11	0.86	5 14
37	3 45 14	9 50 28	15 55 43	22 0 58	0.37	2 15	0.87	5 18
38	3 51 19	9 56 34	16 1 48	22 7 3	0.38	2 19	0.88	5 21
39	3 57 24	10 2 39	16 7 54	22 13 8	0.39	2 22	0.89	5 25
40	4 3 30	10 8 44	16 13 59	22 19 13	0.40	2 26	0.90	5 29
41	4 9 35	10 14 49	16 20 4	22 25 19	0.41	2 30	0.91	5 32
42	4 15 40	10 20 55	16 26 9	22 31 24	0.42	2 33	0.92	5 36
43	4 21 45	10 27 0	16 32 14	22 37 29	0.43	2 37	0.93	5 40
44	4 27 51	10 33 5	16 38 20	22 43 34	0.44	2 41	0.94	5 43
45	4 33 56	10 39 10	16 44 25	22 49 39	0.45	2 44	0.95	5 47
46	4 40 1	10 45 16	16 50 30	22 55 45	0.46	2 48	0.96	5 51
47	4 46 6	10 51 21	16 56 35	23 1 50	0.47	2 52	0.97	5 54
48	4 52 12	10 57 26	17 2 41	23 7 55	0.48	2 55	0.98	5 58
49	4 58 17	11 3 31	17 8 46	23 14 0	0.49	2 59	0.99	6 2
50	5 4 22	11 9 37	17 14 51	23 20 6	0.50	3 3	1.00	6 5
51	5 10 27	11 15 42	17 20 56	23 26 11				
52	5 16 33	11 21 47	17 27 2	23 32 16				
53	5 22 38	11 27 52	17 33 7	23 38 21				
54	5 28 43	11 33 58	17 39 12	23 44 27				
55	5 34 48	11 40 3	17 45 17	23 50 32				
56	5 40 54	11 46 8	17 51 23	23 56 37				
57	5 46 59	11 52 13	17 57 28	24 2 42				
58	5 53 4	11 58 19	18 3 33	24 8 48				
59	5 59 9	12 4 24	18 9 38	24 14 53				

Die Reduktion ist zur mittl. Zeit zu addieren

Red.	0^m	1^m	2^m	3^m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 6 15	12 12 29	18 18 44	0.00	0 0	0.50	3 3
1	0 6 6	6 12 21	12 18 35	18 24 50	0.01	0 4	0.51	3 7
2	0 12 12	6 18 27	12 24 42	18 30 56	0.02	0 7	0.52	3 10
3	0 18 19	6 24 33	12 30 48	18 37 2	0.03	0 11	0.53	3 14
4	0 24 25	6 30 40	12 36 54	18 43 9	0.04	0 15	0.54	3 18
5	0 30 31	6 36 46	12 43 0	18 49 15	0.05	0 18	0.55	3 21
6	0 36 37	6 42 52	12 49 7	18 55 21	0.06	0 22	0.56	3 25
7	0 42 44	6 48 58	12 55 13	19 1 27	0.07	0 26	0.57	3 29
8	0 48 50	6 55 4	13 1 19	19 7 34	0.08	0 29	0.58	3 32
9	0 54 56	7 1 11	13 7 25	19 13 40	0.09	0 33	0.59	3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	0 37	0.60	3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	0 40	0.61	3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	0 44	0.62	3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	0 48	0.63	3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	0 51	0.64	3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	0 55	0.65	3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	0 59	0.66	4 2
17	1 43 46	7 50 1	13 56 15	20 2 30	0.17	1 2	0.67	4 5
18	1 49 52	7 56 7	14 2 21	20 8 36	0.18	1 6	0.68	4 9
19	1 55 59	8 2 13	14 8 28	20 14 42	0.19	1 10	0.69	4 13
20	2 2 5	8 8 19	14 14 34	20 20 48	0.20	1 13	0.70	4 16
21	2 8 11	8 14 26	14 20 40	20 26 55	0.21	1 17	0.71	4 20
22	2 14 17	8 20 32	14 26 46	20 33 1	0.22	1 21	0.72	4 24
23	2 20 24	8 26 38	14 32 53	20 39 7	0.23	1 24	0.73	4 27
24	2 26 30	8 32 44	14 38 59	20 45 13	0.24	1 28	0.74	4 31
25	2 32 36	8 38 51	14 45 5	20 51 20	0.25	1 32	0.75	4 35
26	2 38 42	8 44 57	14 51 11	20 57 26	0.26	1 35	0.76	4 38
27	2 44 49	8 51 3	14 57 18	21 3 32	0.27	1 39	0.77	4 42
28	2 50 55	8 57 9	15 3 24	21 9 38	0.28	1 43	0.78	4 46
29	2 57 1	9 3 16	15 9 30	21 15 45	0.29	1 46	0.79	4 49
30	3 3 7	9 9 22	15 15 36	21 21 51	0.30	1 50	0.80	4 53
31	3 9 14	9 15 28	15 21 43	21 27 57	0.31	1 54	0.81	4 57
32	3 15 20	9 21 34	15 27 49	21 34 3	0.32	1 57	0.82	5 0
33	3 21 26	9 27 41	15 33 55	21 40 10	0.33	2 1	0.83	5 4
34	3 27 32	9 33 47	15 40 1	21 46 16	0.34	2 5	0.84	5 8
35	3 33 38	9 39 53	15 46 8	21 52 22	0.35	2 8	0.85	5 11
36	3 39 45	9 45 59	15 52 14	21 58 28	0.36	2 12	0.86	5 15
37	3 45 51	9 52 5	15 58 20	22 4 35	0.37	2 16	0.87	5 19
38	3 51 57	9 58 12	16 4 26	22 10 41	0.38	2 19	0.88	5 22
39	3 58 3	10 4 18	16 10 33	22 16 47	0.39	2 23	0.89	5 26
40	4 4 10	10 10 24	16 16 39	22 22 53	0.40	2 26	0.90	5 30
41	4 10 16	10 16 30	16 22 45	22 29 0	0.41	2 30	0.91	5 33
42	4 16 22	10 22 37	16 28 51	22 35 6	0.42	2 34	0.92	5 37
43	4 22 28	10 28 43	16 34 57	22 41 12	0.43	2 37	0.93	5 41
44	4 28 35	10 34 49	16 41 4	22 47 18	0.44	2 41	0.94	5 44
45	4 34 41	10 40 55	16 47 10	22 53 24	0.45	2 45	0.95	5 48
46	4 40 47	10 47 2	16 53 16	22 59 31	0.46	2 48	0.96	5 52
47	4 46 53	10 53 8	16 59 22	23 5 37	0.47	2 52	0.97	5 55
48	4 53 0	10 59 14	17 5 29	23 11 43	0.48	2 56	0.98	5 59
49	4 59 6	11 5 20	17 11 35	23 17 49	0.49	2 59	0.99	6 3
50	5 5 12	11 11 27	17 17 41	23 23 56	0.50	3 3	1.00	6 6
51	5 11 18	11 17 33	17 23 47	23 30 2				
52	5 17 25	11 23 39	17 29 54	23 36 8				
53	5 23 31	11 29 45	17 36 0	23 42 14				
54	5 29 37	11 35 52	17 42 6	23 48 21				
55	5 35 43	11 41 58	17 48 12	23 54 27				
56	5 41 50	11 48 4	17 54 19	24 0 33				
57	5 47 56	11 54 10	18 0 25	24 6 39				
58	5 54 2	12 0 17	18 6 31	24 12 46				
59	6 0 8	12 6 23	18 12 37	24 18 52				

Die Reduktion ist von der Sternzeit zu subtrahieren

	0h	1h	2h	3h	4h	5h		
m	d	d	d	d	d	d	s	d
0	0.000000	0.041667	0.083333	0.125000	0.166667	0.208333	0	0.000000
1	.000694	.042361	.084028	.125694	.167361	.209028	1	.000012
2	.001389	.043056	.084722	.126389	.168056	.209722	2	.000023
3	.002083	.043750	.085417	.127083	.168750	.210417	3	.000035
4	.002778	.044444	.086111	.127778	.169444	.211111	4	.000046
5	0.003472	0.045139	0.086806	0.128472	0.170139	0.211806	5	0.000058
6	.004167	.045833	.087500	.129167	.170833	.212500	6	.000069
7	.004861	.046528	.088194	.129861	.171528	.213194	7	.000081
8	.005556	.047222	.088889	.130556	.172222	.213889	8	.000093
9	.006250	.047917	.089583	.131250	.172917	.214583	9	.000104
10	0.006944	0.048611	0.090278	0.131944	0.173611	0.215278	10	0.000116
11	.007639	.049306	.090972	.132639	.174306	.215972	11	.000127
12	.008333	.050000	.091667	.133333	.175000	.216667	12	.000139
13	.009028	.050694	.092361	.134028	.175694	.217361	13	.000150
14	.009722	.051389	.093056	.134722	.176389	.218056	14	.000162
15	0.010417	0.052083	0.093750	0.135417	0.177083	0.218750	15	0.000174
16	.011111	.052778	.094444	.136111	.177778	.219444	16	.000185
17	.011806	.053472	.095139	.136806	.178472	.220139	17	.000197
18	.012500	.054167	.095833	.137500	.179167	.220833	18	.000208
19	.013194	.054861	.096528	.138194	.179861	.221528	19	.000220
20	0.013889	0.055556	0.097222	0.138889	0.180556	0.222222	20	0.000231
21	.014583	.056250	.097917	.139583	.181250	.222917	21	.000243
22	.015278	.056944	.098611	.140278	.181944	.223611	22	.000255
23	.015972	.057639	.099306	.140972	.182639	.224306	23	.000266
24	.016667	.058333	.100000	.141667	.183333	.225000	24	.000278
25	0.017361	0.059028	0.100694	0.142361	0.184028	0.225694	25	0.000289
26	.018056	.059722	.101389	.143056	.184722	.226389	26	.000301
27	.018750	.060417	.102083	.143750	.185417	.227083	27	.000313
28	.019444	.061111	.102778	.144444	.186111	.227778	28	.000324
29	.020139	.061806	.103472	.145139	.186806	.228472	29	.000336
30	0.020833	0.062500	0.104167	0.145833	0.187500	0.229167	30	0.000347
31	.021528	.063194	.104861	.146528	.188194	.229861	31	.000359
32	.022222	.063889	.105556	.147222	.188889	.230556	32	.000370
33	.022917	.064583	.106250	.147917	.189583	.231250	33	.000382
34	.023611	.065278	.106944	.148611	.190278	.231944	34	.000394
35	0.024306	0.065972	0.107639	0.149306	0.190972	0.232639	35	0.000405
36	.025000	.066667	.108333	.150000	.191667	.233333	36	.000417
37	.025694	.067361	.109028	.150694	.192361	.234028	37	.000428
38	.026389	.068056	.109722	.151389	.193056	.234722	38	.000440
39	.027083	.068750	.110417	.152083	.193750	.235417	39	.000451
40	0.027778	0.069444	0.111111	0.152778	0.194444	0.236111	40	0.000463
41	.028472	.070139	.111806	.153472	.195139	.236806	41	.000475
42	.029167	.070833	.112500	.154167	.195833	.237500	42	.000486
43	.029861	.071528	.113194	.154861	.196528	.238194	43	.000498
44	.030556	.072222	.113889	.155556	.197222	.238889	44	.000509
45	0.031250	0.072917	0.114583	0.156250	0.197917	0.239583	45	0.000521
46	.031944	.073611	.115278	.156944	.198611	.240278	46	.000532
47	.032639	.074306	.115972	.157639	.199306	.240972	47	.000544
48	.033333	.075000	.116667	.158333	.200000	.241667	48	.000556
49	.034028	.075694	.117361	.159028	.200694	.242361	49	.000567
50	0.034722	0.076389	0.118056	0.159722	0.201389	0.243056	50	0.000579
51	.035417	.077083	.118750	.160417	.202083	.243750	51	.000590
52	.036111	.077778	.119444	.161111	.202778	.244444	52	.000602
53	.036806	.078472	.120139	.161806	.203472	.245139	53	.000613
54	.037500	.079167	.120833	.162500	.204167	.245833	54	.000625
55	0.038194	0.079861	0.121528	0.163194	0.204861	0.246528	55	0.000637
56	.038889	.080556	.122222	.163889	.205556	.247222	56	.000648
57	.039583	.081250	.122917	.164583	.206250	.247917	57	.000660
58	.040278	.081944	.123611	.165278	.206944	.248611	58	.000671
59	.040972	.082639	.124306	.165972	.207639	.249306	59	.000683

m	6ʰ d	7ʰ d	8ʰ d	9ʰ d	10ʰ d	11ʰ d	s	d
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0	0.000000
1	.250694	.292361	.334028	.375694	.417361	.459028	1	.000012
2	.251389	.293056	.334722	.376389	.418056	.459722	2	.000023
3	.252083	.293750	.335417	.377083	.418750	.460417	3	.000035
4	.252778	.294444	.336111	.377778	.419444	.461111	4	.000046
5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	5	0.000058
6	.254167	.295833	.337500	.379167	.420833	.462500	6	.000069
7	.254861	.296528	.338194	.379861	.421528	.463194	7	.000081
8	.255556	.297222	.338889	.380556	.422222	.463889	8	.000093
9	.256250	.297917	.339583	.381250	.422917	.464583	9	.000104
10	0.256944	0.298611	0.340278	0.381944	0.423611	0.465278	10	0.000116
11	.257639	.299306	.340972	.382639	.424306	.465972	11	.000127
12	.258333	.300000	.341667	.383333	.425000	.466667	12	.000139
13	.259028	.300694	.342361	.384028	.425694	.467361	13	.000150
14	.259722	.301389	.343056	.384722	.426389	.468056	14	.000162
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	15	0.000174
16	.261111	.302778	.344444	.386111	.427778	.469444	16	.000185
17	.261806	.303472	.345139	.386806	.428472	.470139	17	.000197
18	.262500	.304167	.345833	.387500	.429167	.470833	18	.000208
19	.263194	.304861	.346528	.388194	.429861	.471528	19	.000220
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	20	0.000231
21	.264583	.306250	.347917	.389583	.431250	.472917	21	.000243
22	.265278	.306944	.348611	.390278	.431944	.473611	22	.000255
23	.265972	.307639	.349306	.390972	.432639	.474306	23	.000266
24	.266667	.308333	.350000	.391667	.433333	.475000	24	.000278
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	25	0.000289
26	.268056	.309722	.351389	.393056	.434722	.476389	26	.000301
27	.268750	.310417	.352083	.393750	.435417	.477083	27	.000313
28	.269444	.311111	.352778	.394444	.436111	.477778	28	.000324
29	.270139	.311806	.353472	.395139	.436806	.478472	29	.000336
30	0.270833	0.312500	0.354167	0.395833	0.437500	0.479167	30	0.000347
31	.271528	.313194	.354861	.396528	.438194	.479861	31	.000359
32	.272222	.313889	.355556	.397222	.438889	.480556	32	.000370
33	.272917	.314583	.356250	.397917	.439583	.481250	33	.000382
34	.273611	.315278	.356944	.398611	.440278	.481944	34	.000394
35	0.274306	0.315972	0.357639	0.399306	0.440972	0.482639	35	0.000405
36	.275000	.316667	.358333	.400000	.441667	.483333	36	.000417
37	.275694	.317361	.359028	.400694	.442361	.484028	37	.000428
38	.276389	.318056	.359722	.401389	.443056	.484722	38	.000440
39	.277083	.318750	.360417	.402083	.443750	.485417	39	.000451
40	0.277778	0.319444	0.361111	0.402778	0.444444	0.486111	40	0.000463
41	.278472	.320139	.361806	.403472	.445139	.486806	41	.000475
42	.279167	.320833	.362500	.404167	.445833	.487500	42	.000486
43	.279861	.321528	.363194	.404861	.446528	.488194	43	.000498
44	.280556	.322222	.363889	.405556	.447222	.488889	44	.000509
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	45	0.000521
46	.281944	.323611	.365278	.406944	.448611	.490278	46	.000532
47	.282639	.324306	.365972	.407639	.449306	.490972	47	.000544
48	.283333	.325000	.366667	.408333	.450000	.491667	48	.000556
49	.284028	.325694	.367361	.409028	.450694	.492361	49	.000567
50	0.284722	0.326389	0.368056	0.409722	0.451389	0.493056	50	0.000579
51	.285417	.327083	.368750	.410417	.452083	.493750	51	.000590
52	.286111	.327778	.369444	.411111	.452778	.494444	52	.000602
53	.286806	.328472	.370139	.411806	.453472	.495139	53	.000613
54	.287500	.329167	.370833	.412500	.454167	.495833	54	.000625
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	55	0.000637
56	.288889	.330556	.372222	.413889	.455556	.497222	56	.000648
57	.289583	.331250	.372917	.414583	.456250	.497917	57	.000660
58	.290278	.331944	.373611	.415278	.456944	.498611	58	.000671
59	.290972	.332639	.374306	.415972	.457639	.499306	59	.000683

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ-☊	Δλ	a	B	λ-☊	λ-☊	Δλ	a	B	λ-☊
°	′		° ′	°	°	′		° ′	°
0	+0.0+	—0.0269+	—0 0.0+	180	45	+0.6+	—0.0190+	—1 5.3+	225
1	0.0	268	0 1.6	181	46	0.6	187	1 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	1 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	1 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	1 9.7	229
5	+0.1+	—0.0268+	—0 8.0+	185	50	+0.6+	—0.0173+	—1 10.7+	230
6	0.1	267	0 9.7	186	51	0.6	169	1 11.8	231
7	0.1	267	0 11.3	187	52	0.6	165	1 12.8	232
8	0.2	266	0 12.9	188	53	0.6	162	1 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	1 14.7	234
10	+0.2+	—0.0264+	—0 16.0+	190	55	+0.6+	—0.0154+	—1 15.6+	235
11	0.2	264	0 17.6	191	56	0.6	150	1 16.5	236
12	0.2	263	0 19.2	192	57	0.6	146	1 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	1 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	1 19.2	239
15	+0.3+	—0.0259+	—0 23.9+	195	60	+0.5+	—0.0134+	—1 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	1 20.8	241
17	0.3	257	0 27.0	197	62	0.5	126	1 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	1 22.3	243
19	0.4	254	0 30.1	199	64	0.5	118	1 23.0	244
20	+0.4+	—0.0252+	—0 31.6+	200	65	+0.5+	—0.0114+	—1 23.7+	245
21	0.4	251	0 33.1	201	66	0.5	109	1 24.4	246
22	0.4	249	0 34.6	202	67	0.4	105	1 25.0	247
23	0.4	247	0 36.1	203	68	0.4	101	1 25.6	248
24	0.5	245	0 37.6	204	69	0.4	096	1 26.2	249
25	+0.5+	—0.0243+	—0 39.0+	205	70	+0.4+	—0.0092+	—1 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	1 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	1 27.8	252
28	0.5	237	0 43.4	208	73	0.3	79	1 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	1 28.8	254
30	+0.5+	—0.0233+	—0 46.2+	210	75	+0.3+	—0.0070+	—1 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	1 29.6	256
32	0.6	228	0 48.9	212	77	0.3	60	1 30.0	257
33	0.6	225	0 50.3	213	78	0.2	56	1 30.3	258
34	0.6	223	0 51.6	214	79	0.2	51	1 30.6	259
35	+0.6+	—0.0220+	—0 53.0+	215	80	+0.2+	—0.0047+	—1 30.9+	260
36	0.6	217	0 54.3	216	81	0.2	42	1 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	1 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	1 31.6	263
39	0.6	209	0 58.1	219	84	0.1	28	1 31.8	264
40	+0.6+	—0.0206+	—0 59.4+	220	85	+0.1+	—0.0023+	—1 32.0+	265
41	0.6	203	1 0.6	221	86	0.1	19	1 32.1	266
42	0.6	200	1 1.8	222	87	0.1	14	1 32.2	267
43	0.6	196	1 3.0	223	88	0.0	09	1 32.3	268
44	0.6	193	1 4.1	224	89	0.0	05	1 32.3	269
45	+0.6+	—0.0190+	—1 5.3+	225	90	+0.0+	—0.0000+	—1 32.3+	270

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ-☊	Δλ	a	B	λ-☊	λ-☊	Δλ	a	B	λ-☊
°	'		° '	°	°	'		° '	°
90	—0.0—	+0.0000—	—1 32.3+	270	135	—0.6—	+0.0190—	—1 5.3+	315
91	0.0	05	1 32.3	271	136	0.6	193	1 4.1	316
92	0.0	09	1 32.3	272	137	0.6	196	1 3.0	317
93	0.1	14	1 32.2	273	138	0.6	200	1 1.8	318
94	0.1	19	1 32.1	274	139	0.6	203	1 0.6	319
95	—0.1—	+0.0023—	—1 32.0+	275	140	—0.6—	+0.0206—	—0 59.4+	320
96	0.1	28	1 31.8	276	141	0.6	209	0 58.1	321
97	0.1	33	1 31.6	277	142	0.6	212	0 56.9	322
98	0.2	37	1 31.4	278	143	0.6	214	0 55.6	323
99	0.2	42	1 31.2	279	144	0.6	217	0 54.3	324
100	—0.2—	+0.0047—	—1 30.9+	280	145	—0.6—	+0.0220—	—0 53.0+	325
101	0.2	51	1 30.6	281	146	0.6	223	0 51.6	326
102	0.2	56	1 30.3	282	147	0.6	225	0 50.3	327
103	0.3	60	1 30.0	283	148	0.6	228	0 48.9	328
104	0.3	65	1 29.6	284	149	0.5	230	0 47.6	329
105	—0.3—	+0.0070—	—1 29.2+	285	150	—0.5—	+0.0233—	—0 46.2+	330
106	0.3	74	1 28.8	286	151	0.5	235	0 44.8	331
107	0.3	79	1 28.3	287	152	0.5	237	0 43.4	332
108	0.4	83	1 27.8	288	153	0.5	239	0 41.9	333
109	0.4	87	1 27.3	289	154	0.5	241	0 40.5	334
110	—0.4—	+0.0092—	—1 26.8+	290	155	—0.5—	+0.0243—	—0 39.0+	335
111	0.4	096	1 26.2	291	156	0.5	245	0 37.6	336
112	0.4	101	1 25.6	292	157	0.4	247	0 36.1	337
113	0 4	105	1 25.0	293	158	0.4	249	0 34.6	338
114	0.5	109	1 24.4	294	159	0.4	251	0 33.1	339
115	—0.5—	+0.0114—	—1 23.7+	295	160	—0.4—	+0.0252—	—0 31.6+	340
116	0.5	118	1 23.0	296	161	0.4	254	0 30.1	341
117	0.5	122	1 22.3	297	162	0.4	255	0 28.5	342
118	0.5	126	1 21.5	298	163	0.3	257	0 27.0	343
119	0.5	130	1 20.8	299	164	0.3	258	0 25.5	344
120	—0.5—	+0.0134—	—1 20.0+	300	165	—0.3—	+0.0259—	—0 23.9+	345
121	0.5	138	1 19.2	301	166	0.3	261	0 22.3	346
122	0.6	142	1 18.3	302	167	0.3	262	0 20.8	347
123	0.6	146	1 17.4	303	168	0.2	263	0 19.2	348
124	0.6	150	1 16.5	304	169	0.2	264	0 17.6	349
125	—0.6—	+0.0154—	—1 15.6+	305	170	—0.2—	+0.0264—	—0 16.0+	350
126	0.6	158	1 14.7	306	171	0.2	265	0 14.4	351
127	0.6	162	1 13.8	307	172	0.2	266	0 12.9	352
128	0.6	165	1 12.8	308	173	0.1	267	0 11.3	353
129	0.6	169	1 11.8	309	174	0.1	267	0 9.7	354
130	—0.6—	+0.0173—	—1 10.7+	310	175	—0.1—	+0.0268—	—0 8.0+	355
131	0.6	176	1 9.7	311	176	0.1	268	0 6.4	356
132	0.6	180	1 8.6	312	177	0.1	268	0 4.8	357
133	0.6	183	1 7.5	313	178	0.0	268	0 3.2	358
134	0.6	187	1 6 4	314	179	0.0	268	0 1.6	359
135	—0.6—	+0.0190—	—1 5.3+	315	180	—0.0—	+0.0269—	—0 0.0+	360

$$l' = \lambda + \Delta\lambda - a\,(B - \beta) - L_{☾}\,; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Hilfsgrößen

zur Berechnung der geozentrischen Koordinaten

$\rho \sin \varphi' = s \sin \varphi$; $\rho \cos \varphi' = c \cos \varphi$

φ	log s		log c		φ	log s		log c	
± 0°	9.9970705	4	0.0000000	4	± 40°	9.9976745	252	0.0006040	252
1	.9970709	14	.0000004	14	41	.9976997	254	.0006292	254
2	.9970723	22	.0000018	22	42	.9977251	255	.0006546	255
3	.9970745	31	.0000040	31	43	.9977506	255	.0006801	255
4	.9970776	40	.0000071	40	44	.9977761	255	.0007056	255
5	9.9970816	49	0.0000111	49	45	9.9978016	256	0.0007311	256
6	.9970865	57	.0000160	57	46	.9978272	255	.0007567	255
7	.9970922	66	.0000217	66	47	.9978527	255	.0007822	255
8	.9970988	74	.0000283	74	48	.9978782	254	.0008077	254
9	.9971062	83	.0000357	83	49	.9979036	252	.0008331	252
10	9.9971145	92	0.0000440	92	50	9.9979288	252	0.0008583	252
11	.9971237	99	.0000532	99	51	.9979540	249	.0008835	249
12	.9971336	108	.0000631	108	52	.9979789	247	.0009084	247
13	.9971444	116	.0000739	116	53	.9980036	245	.0009331	245
14	.9971560	123	.0000855	123	54	.9980281	242	.0009576	242
15	9.9971683	131	0.0000978	131	55	9.9980523	239	0.0009818	239
16	.9971814	139	.0001109	139	56	.9980762	235	.0010057	235
17	.9971953	146	.0001248	146	57	.9980997	232	.0010292	232
18	.9972099	154	.0001394	154	58	.9981229	228	.0010524	228
19	.9972253	160	.0001548	160	59	.9981457	224	.0010752	224
20	9.9972413	168	0.0001708	168	60	9.9981681	220	0.0010976	220
21	.9972581	174	.0001876	174	61	.9981901	215	.0011196	215
22	.9972755	180	.0002050	180	62	.9982116	209	.0011411	209
23	.9972935	187	.0002230	187	63	.9982325	205	.0011620	205
24	.9973122	192	.0002417	192	64	.9982530	199	.0011825	199
25	9.9973314	198	0.0002609	198	65	9.9982729	193	0.0012024	193
26	.9973512	204	.0002807	204	66	.9982922	188	.0012217	188
27	.9973716	209	.0003011	209	67	.9983110	181	.0012405	181
28	.9973925	214	.0003220	214	68	.9983291	175	.0012586	175
29	.9974139	219	.0003434	219	69	.9983466	168	.0012761	168
30	9.9974358	223	0.0003653	223	70	9.9983634	161	0.0012929	161
31	.9974581	227	.0003876	227	71	.9983795	154	.0013090	154
32	.9974808	232	.0004103	232	72	.9983949	147	.0013244	147
33	.9975040	235	.0004335	235	73	.9984096	140	.0013391	140
34	.9975275	238	.0004570	238	74	.9984236	132	.0013531	132
35	9.9975513	241	0.0004808	241	75	9.9984368	124	0.0013663	124
36	.9975754	245	.0005049	245	76	.9984492	117	.0013787	117
37	.9975999	246	.0005294	246	77	.9984609	108	.0013904	108
38	.9976245	249	.0005540	249	78	9984717	100	.0014012	100
39	.9976494	251	.0005789	251	79	.9984817	92	.0014112	92
40	9.9976745		0.0006040		80	9.9984909		0.0014204	

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Abbadia	69	+43 22 52.2	+ 0 7 0.1	+ 1.15	+43 11 17.8	9.999317
Åbo	—	+60 26 56.8	— 1 29 6.30	— 14.64	+60 16 58.8	9.998894
Adelaide	41	—34 55 35.1	— 9 14 19.90	— 91.06	—34 44 42.7	9.999526
Albany (N. Stw.)[1]	40	+42 39 12.8	+ 4 55 7.12	+ 48.48	+42 27 39.7	9.999334
Algier (N. Stw.)[2]	345	+36 48 4.8	— 0 12 8.47	— 1.99	+36 36 58.1	9.999497
Allegheny (N. Stw.)	370	+40 28 58.1	+ 5 20 5.39	+ 52.59	+40 17 31.4	9.999411
Allegheny (A. Stw.)	349	+40 27 41.6	+ 5 20 2.97	+ 52.58	+40 16 15.0	9.999411
Amherst (Neue Stw.)	110	+42 21 56.5	+ 4 50 5.98	+ 47.66	+42 10 24.0	9.999346
Amherst (Alte Stw.)	122	+42 22 17.1	+ 4 50 4.72	+ 47.66	+42 10 44.6	9.999347
Ann Arbor	282	+42 16 48.7	+ 5 34 55.27	+ 55.02	+42 5 16.4	9.999360
Arcetri Zentr. d. St.[3]	184	+43 45 14.4	— 0 45 1.30	— 7.39	+43 33 39.5	9.999316
Arequipa[4]	2451	—16 22 28.0	+ 4 46 11.73	+ 47.02	—16 16 12.7	0.000052
Armagh	64	+54 21 11	+ 0 26 35.48	+ 4.37	+54 10 11.4	9.999041
Athen	110	+37 58 15.5	— 1 34 52.2	— 15.58	+37 47 1.2	9.999456
Bamberg (Remeis' St.)	288	+49 53 6.0	— 0 43 33.57	— 7.15	+49 41 40.0	9.999167
Barcelona[5]	415	+41 24 59.3	— 0 8 30.2	— 1.41	+41 13 29.4	9.999391
Beloit	245	+42 30 8.4	+ 5 56 7.4	+ 58.51	+42 18 35.6	9.999352
Bergedorf Mer.-Kr.	41	+53 28 46.9	— 0 40 57.74	— 6.73	+53 17 40.8	9.999060
Berkeley	94	+37 52 23.5	+ 8 9 2.80	+ 80.34	+37 41 9.8	9.999458
Berlin-Babelsberg[6]	82	+52 24 24.2	— 0 52 25.49	— 8.61	+52 13 11.1	9.999089
Berlin (Urania)	—	+52 31 30.7	— 0 53 27.40	— 8.78	+52 20 18.3	9.999081
Bern	573	+46 57 8.7	— 0 29 45.55	— 4.89	+46 45 34.5	9.999261
Besançon	312	+47 14 59.0	— 0 23 57.1	— 3.93	+47 3 25.3	9.999236
Bloemfontein Filiale d. Detroit Obs.	1490	—29 5 45	— 1 44 57	— 17.24	—28 55 55	9.999758
Bloemfontein Boyden Stat. d. Harv. Obs.	1379	—29 12	— 1 45 57	— 17.40	—29 2	9.999748
Bogota	2640	+ 4 35 55.2	+ 4 56 19.51	+ 48.68	+ 4 34 4.4	0.000111
Bologna Zentr. d. Stw.	84	+44 29 52.8	— 0 45 24.48	— 7.46	+44 18 17.3	9.999290
Bombay (Colaba)	19	+18 53 36.2	— 4 51 15.60	— 47.85	+18 46 31.1	9.999849
Bonn Zentr. d. Stw.	62	+50 43 45.0	— 0 28 23.18	— 4.66	+50 32 22.7	9.999130
Bordeaux (Floirac)	73	+44 50 7.2	+ 0 2 6.56	+ 0.35	+44 38 31.6	9.999281
Boston (University)[7]	31	+42 20 58	+ 4 44 19.1	+ 46.71	+42 9 25.6	9.999341
Bothkamp[8]	32	+54 12 9.6	— 0 40 31.2	— 6.65	+54 1 8.8	9.999042
Breslau Zentr. d. Stw.	147	+51 6 56.5	— 1 8 8.72	— 11.19	+50 55 36.1	9.999126
Breslau Neue Sternw.	117	+51 6 41	— 1 8 21.19	— 11.23	+50 55 20.6	9.999130
Brisbane	51	—27 28 23.0	—10 12 6.48	—100.55	—27 18 54.6	9.999694
Brüssel (Alte Sternw.) Pass. Instr.	56	+50 51 10.7	— 0 17 28.71	— 2.87	+50 39 49.0	9.999126
Brüssel (Uccle) Mer.-Kr.	105	+50 47 54.6	— 0 17 26.05	— 2.86	+50 36 32.7	9.999131
Budapest Univ. Stw.	110	+47 29 34.7	— 1 16 15.4	— 12.53	+47 18 1.5	9.999215

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″.0 nördlich, 7ˢ.10 östlich. — [2]) Alte Sternwarte 3′.8 südlich, 8ˢ östlich. — [3]) Seit Oktober 1872, früher in Florenz. — [4]) 1927 geschlossen und nach Bloemfontein verlegt. — [5]) J. Comas Solá. — [6]) Die Koordinaten beziehen sich auf die Mitte der großen Kuppel, in der der große Refraktor aufgestellt ist. Die frühere Sternwarte in Berlin (seit 1835) lag 5′ 52″.5 nördlich und 1ᵐ 9ˢ.31 östlich. — [7]) Die alte Sternwarte lag 4ˢ.1 östlich, 34″.5 nördlich. — [8]) Herr von Bülow.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Budapest[1])	110	+47 28 49	−1 16 13.7	−12.53	+47 17 16	9.999215
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	−1 44 27.01	−17.16	+44 12 58.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	−0 0 22.75	− 0.06	+52 1 37.3	9.999090
Cambridge Mass.[2]) .	24	+42 22 47.6	+4 44 31.05	+46.74	+42 11 15.1	9.999340
Cap d. gut. Hoffnung	10	−33 56 6.8	−1 13 54.73	−12.14	−33 45 23.2	9.999547
Catania	47	+37 30 13.3	−1 0 20.6	− 9.91	+37 19 1.9	9.999466
Charkow	139	+50 0 9.9	−2 24 55.72	−23.81	+49 48 44.4	9.999153
Charlottenburg, Techn. Hochsch.	60	+52 30 48.7	−0 53 20.5	− 8.76	+52 19 36.2	9.999085
Charlottesville[3]) . .	259	+38 2 1.2	+5 14 5.33	+51.60	+37 50 46.5	9.999464
Christiania (Oslo) Mer.-Kr.	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Cincinnati (Alte Stw.) .	—	+39 6 26.5	+5 37 59.09	+55.52	+38 55 6.0	9.999421
Cincinnati (Neue Stw.)[4])	247	+39 8 19.8	+5 37 41.40	+55.47	+38 56 59.1	9.999437
Cleveland (Case Obs.) .	215	+41 30 14.5	+5 26 25.86	+53.63	+41 18 44.3	9.999375
Coimbra	99	+40 12 24.5	+0 33 43.1	+ 5.54	+40 0 58.9	9.999400
Columbia Missouri[5]) .	225	+38 56 12	+6 9 18.37	+60.67	+38 44 52.3	9.999442
Cordoba	434	−31 25 15.5	+4 16 48.22	+42.19	−31 14 57.5	9.999635
Danzig	3	+54 21 18.0	−1 14 39.6	−12.26	+54 10 18.4	9.999036
Denver[6])	1644	+39 40 36.4	+6 59 47.72	+68.96	+39 29 13.1	9.999519
Dorpat (Tartu, Jurjew) Mer.-Kr.	67	+58 22 47.2	−1 46 53.19	−17.56	+58 12 25.1	9.998946
Dresden (Geodät. Inst.)	168	+51 1 49.3	−0 54 55.1	− 9.02	+50 50 28.5	9.999130
Dresden (Mathem. Salon)	—	+51 3 14.7	−0 54 55.83	− 9.02	+50 51 54.0	9.999117
Dublin (Dunsink Obs.) .	86	+53 23 13.1	+0 25 21.1	+ 4.17	+53 12 6.4	9.999065
Düsseldorf (Bilk) . . .	46	+51 12 25.0	−0 27 2.69	− 4.44	+51 1 5.1	9.999117
Durham	108	+54 46 6.2	+0 6 19.75	+ 1.04	+54 35 9.8	9.999033
Edinburgh	146	+55 55 30	+0 12 44.1	+ 2.09	+55 44 43.5	9.999008
Edinburgh (Blackf. Hill)	134	+55 55 28.0	+0 12 44.0	+ 2.09	+55 44 41.5	9.999007
Evanston (Dearborn Obs.)	175	+42 3 33.4	+5 50 42.3	+57.61	+41 52 1.6	9.999358
Flagstaff (Lowell Obs.) .	2210	+35 12 30.5	+7 26 44.6	+73.39	+35 1 35.8	9.999667
Florenz (Alte Sternw.)[7])	73	+43 46 4.1	−0 44 59.6	− 7.39	+43 34 29.2	9.999308
Florenz (Mil. Geogr. Inst.)	72	+43 46 49.4	−0 45 2.5	− 7.40	+43 35 14.5	9.999308
Frankfurt a. M. . .	121	+50 7 0	−0 34 36.3	− 5.70	+49 55 34.6	9.999149
Genf Mer.-Kreis	406	+46 11 59.3	−0 24 36.53	− 4.04	+46 0 24.1	9.999269
Genua (Mar. Stw.) Mer.-Kr.	108	+44 25 8.1	−0 35 41.28	− 5.86	+44 13 32.6	9.999294
Georgetown D. C. . .	62	+38 54 26.2	+5 8 18.33	+50.65	+38 43 6.7	9.999430
Glasgow Schottl. . .	55	+55 52 42.1	+0 17 10.55	+ 2.82	+55 41 55.2	9.999003
Glasgow Missouri . .	228	+39 13 45.6	+6 11 18.06	+61.00	+39 2 24.5	9.999433

[1]) Observ. der Kgl. Josef-Technischen Hochschule. — [2]) Harvard College Observatory. — [3]) Leander Mc. Cormick Obs. der University of Virginia. — [4]) Mount Lookout seit 1873. — [5]) Laws Observatory. — [6]) University Park, Chamberlin Observatory. — [7]) 1872 nach Arcetri verlegt.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Göttingen Mer.-Kreis . .	161	+51 31 48.2	−0 39 46.22	− 6.53	+51 20 30.0	9.999117
Gotha (Neue Stw.) Zentr. d. St.[1]	322	+50 56 37.9	−0 42 50.51	− 7.04	+50 45 16.7	9.999142
Graz	375	+47 4 37.2	−1 1 47.71	−10.15	+46 53 3.2	9.999244
Greenwich Transit Circle	47	+51 28 38.2	0 0 0.00	0.00	+51 17 19.7	9.999110
Groningen	4	+53 13 13.8	−0 26 15.11	− 4.31	+53 2 6.0	9.999064
Hamburg (Alt. Stw.) M.-Kr.[2]	25	+53 33 6.0	−0 39 53.60	− 6.55	+53 22 0.4	9.999057
Hamburg (D. Seewarte) .	30	+53 32 51.8	−0 39 53.42	− 6.55	+53 21 46.2	9.999058
Hanover N. H.	183	+43 42 15.3	+4 49 8.00	+47.50	+43 30 40.5	9.999317
Haverford	116	+40 0 40.1	+5 1 12.7	+49.48	+39 49 15.4	9.999406
Heidelberg (Wolfs Stw.)	126	+49 24 35	−0 34 48.4	− 5.72	+49 13 7	9.999159
Heidelberg (Königst.) M.-Kr.	570	+49 23 54.6	−0 34 53.13	− 5.73	+49 12 26.8	9.999198
Helsingfors Mer.-Kreis .	33	+60 9 42.3	−1 39 49.10	−16.40	+59 59 40.8	9.998903
Helwan	115	+29 51 31.1	−2 5 21.77	−20.59	+29 41 31.4	9.999648
Hongkong	33	+22 18 13.2	−7 36 41.25	−75.02	+22 10 5.8	9.999793
Hyderabad-Deccan[3]	554	+17 25 54.3	−5 13 48.98	−51.55	+17 19 17.7	9.999907
Innsbruck	605	+47 16 7.7	−0 45 31.42	− 7.48	+47 4 34.0	9.999254
Jena (Univers.) Zentr. d. St.	164	+50 55 35.6	−0 46 20.22	− 7.61	+50 44 14.3	9.999131
Jena (Winkler)	174	+50 56 15.7	−0 46 20.73	− 7.61	+50 44 54.5	9.999132
Johannesburg	1786	−26 10 52.1	−1 52 17.9	−18.45	−26 1 42.0	9.999839
Johannesburg (Filiale des Yale Observ.)	1741	−26 11 14	−1 52 7	−18.42	−26 2 4	9.999836
Kairo	—	+30 4 38.2	−2 5 8.80	−20.56	+29 54 35.8	9.999635
Kalocsa[4]	102	+46 31 42.4	−1 15 54.34	−12.47	+46 20 7.6	9.999239
Karlsruhe[5]	110	+49 0 29.6	−0 33 35.40	− 5.52	+48 49 0.4	9.999177
Kasan (Univers.)	79	+55 47 24.3	−3 16 29.03	−32.28	+55 36 36.6	9.999007
Kasan (Engelhardt) . . .	98	+55 50 20.5	−3 15 15.74	−32.08	+55 39 33.2	9.999007
Kew	10	+51 28 6	+0 1 15.1	+ 0.21	+51 16 47.5	9.999108
Kiel Neuer Mer.-Kreis . .	52	+54 20 27.6	−0 40 35.45	− 6.67	+54 9 27.9	9.999040
Kiel Alter Mer.-Kreis . .	47	+54 20 28.5	−0 40 35.57	− 6.67	+54 9 28.8	9.999040
Kiew Mer.-Kreis	184	+50 27 11.8	−2 2 0.56	−20.04	+50 15 48.3	9.999145
Kodaikanal	2343	+10 13 50	−5 9 52.0	−50.94	+10 9 47.6	0.000114
Königsberg Reps. M.-Kr.[6]	22	+54 42 50.6	−1 21 58.98	−13.47	+54 31 53.8	9.999029
Konstanz[7]	420	+47 39 43.6	−0 36 42.01	− 6.03	+47 28 10.7	9.999232
Kopenhagen (Neue Stw.)[8]	14	+55 41 12.6	−0 50 18.69	− 8.26	+55 30 24.0	9.999005
Kopenhagen (Urania St.)	10	+55 41 19.2	−0 50 9.11	− 8.24	+55 30 30.6	9.999005
Krakau Mer.-Kreis . . .	221	+50 3 51.9	−1 19 50.28	−13.11	+49 52 26.7	9.999158
Kremsmünster Mer.-Kr.	384	+48 3 23.1	−0 56 31.58	− 9.28	+47 51 51.1	9.999219

[1]) Seit 1857, früher Seeberg. — [2]) 1909 nach Bergedorf verlegt. — [3]) Nizamiah Observatory — [4]) Erzbischöfl. Haynaldsche Sternwarte. — [5]) 1896 nach Heidelberg verlegt. — [6]) Nach 1898, vor 1898 0ˢ.01 westlich. — [7]) Privatsternwarte von E. Leiner. — [8]) Seit 1861 Nov. 11. Alte Sternwarte 20″.3 südlich, 0ˢ.03 westlich.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Kyoto	55	+35 1 37.1	−9 3 6.70	−89.22	+34 50 43.9	9.999525
Landstuhl (Fauth) . . .	385	+49 24 42.5	−0 30 16.35	− 4.97	+49 13 14.7	9.999185
La Plata Mer. Kr. Gautier	17	−34 54 30.3	+3 51 43.74	+38.07	−34 43 38.1	9.999525
Leiden (Neue Stw.) Mer.-Kr.[1])	6	+52 9 19.8	−0 17 56.15	− 2.94	+51 58 5.2	9.999090
Leipzig (Neue Stw.) Zentr.[2])	119	+51 20 5.9	−0 49 33.93	− 8.14	+51 8 46.7	9.999119
Lembang (Bosscha St.) .	1300	− 6 49 29.1	−7 10 27.81	−70.71	− 6 46 45.5	0.000068
Lemberg (Techn. Hochsch.) Pass. Instr.	340	+49 50 11.2	−1 36 3.40	−15.78	+49 38 45.0	9.999171
Leningrad (Petersburg) (Akad.) .	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Leningrad (Petersburg) (Univers.) .	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Lissabon (Tapada) . .	94	+38 42 30.5	+0 36 44.68	+ 6.04	+38 31 12.0	9.999437
Lissabon (Mar. Stw.) . .	—	+38 42 17.6	+0 36 33.6	+ 6.01	+38 30 59.2	9.999431
Liverpool (Neue Stw.)[3])	62	+53 24 4.8	+0 12 17.33	+ 2.02	+53 12 58.2	9.999063
Lourenço Marques .	60	−25 58 5.5	−2 10 22.63	−21.42	−25 48 58.9	9.999725
Lübeck (Navig.-Sch.) .	19	+53 51 31.1	−0 42 45.6	− 7.02	+53 40 27.8	9.999049
Lund Zentr. d. Stw. . .	34	+55 41 51.6	−0 52 44.97	− 8.66	+55 31 3.1	9.999006
Lüttich Ougrée . . .	128	+50 37 6	−0 22 12	− 3.65	+50 25 43	9.999137
Lyon	299	+45 41 40.8	−0 19 8.5	− 3.14	+45 30 5.3	9.999274
Madison (Washburn Obs.)	292	+43 4 36.8	+5 57 37.90	+58.75	+42 53 2.9	9.999340
Madras	7	+13 4 8.0	−5 20 59.65	−52.73	+12 59 2.5	9.999926
Madrid Zentr. d. Stw. .	656	+40 24 30.1	+0 14 45.09	+ 2.43	+40 13 3.7	9.999433
Mailand, Brera . . .	120	+45 27 59.2	−0 36 45.89	− 6.04	+45 16 23.6	9.999268
Manila	3	+14 35 25	−8 3 50	−79.48	+14 29 47	9.999908
Mannheim Zentr. d. Stw.	98	+49 29 11.0	−0 33 50.42	− 5.56	+49 17 43.5	9.999164
Marburg	248	+50 48 46.9	−0 35 4.9	− 5.76	+50 37 25.0	9.999141
Mare Island Calif. .	18	+38 5 55.8	+8 9 5.63	+80.35	+37 54 40.8	9.999447
Markree (Col. Cooper) .	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (N. St.) M.-Kr.[4])	75	+43 18 19.1	−0 21 34.56	− 3.54	+43 6 44.8	9.999320
Melbourne	28	−37 49 53.4	−9 39 54.17	−95.26	−37 38 39.9	9.999454
Meudon	162	+48 48 18	−0 8 55.5	− 1.46	+48 36 48	9.999185
Mexico	2277	+19 26 1.3	+6 36 26.71	+65.13	+19 18 45.9	9.999995
Middletown, Conn. .	70	+41 33 18	+4 50 38.2	+47.74	+41 21 47.6	9.999364
Mizusawa	61	+39 8 3.4	−9 24 31.46	−92.74	+38 56 42.7	9.999424
Modena	63	+44 38 52.8	−0 43 42.8	− 7.18	+44 27 17.2	9.999285
Montreal	57	+45 30 20	+4 54 18.63	+48.35	+45 18 44.4	9.999263
Mt. Hamilton (Lick) Mkr.	1283	+37 20 25.6	+8 6 34.86	+79.94	+37 9 15.2	9.999552
Mt. Wilson Calif. . .	1742	+34 12 59.5	+7 52 14.33	+77.57	+34 2 13.3	9.999659

[1]) Seit 1860. Alte Sternwarte 8″.0 nördlich, 0ˢ.42 östlich. — [2]) Seit 1861. Alte Sternwarte 14″.2 nördlich, 4ˢ.00 westlich. — [3]) Alte Sternwarte 44″.0 nördlich, 17ˢ.1 östlich. — [4]) Seit 1866. Alte Sternwarte 30″.1 südlich, 6ˢ.2 westlich; 29ᵐ.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Moskau Mer.-Kr. . . .	142	+55 45 19.5	−2 30 17.03	−24.69	+55 34 31.5	9.999012
Mundenheim[1]) . . .	—	+49 27 30	−0 33 44	− 5.54	+49 16 2	9.999158
München West-Kuppel	529	+48 8 45.5	−0 46 26.02	− 7.63	+47 57 13.8	9.999227
Münster	75	+51 57 45.8	−0 30 29.66	− 5.01	+51 46 30.0	9.999100
Nashville (Vanderbilt Obs.)	174	+36 8 58.2	+5 47 12.81	+57.04	+35 57 56.1	9.999506
Natal	79	−29 50 46.6	−2 4 1.18	−20.37	−29 40 47.0	9.999645
Neapel (Capo di M.) . .	154	+40 51 45.7	−0 57 1.40	− 9.37	+40 40 17.6	9.999387
Neuchâtel Refraktor .	488	+46 59 49.5	−0 27 49.57	− 4.57	+46 48 15.4	9.999254
New Haven (Neue Stw.)[2])	40	+41 19 22.3	+4 51 40.58	+47.92	+41 7 52.7	9.999368
New York (Rutherfurd)	—	+40 43 48.5	+4 55 56.66	+48.62	+40 32 20.9	9.999380
New York (Columb. Obs.)	—	+40 45 23.1	+4 55 53.73	+48.61	+40 33 55.4	9.999379
Nikolajew Mer.-Kr. . .	55	+46 58 19.3	−2 7 53.98	−21.01	+46 46 45.1	9.999225
Nizza Kl. Mer.-Kr.[3]) . .	378	+43 43 16.9	−0 29 12.15	− 4.79	+43 31 42.0	9.999330
Northfield (Goodsell Obs.)	290	+44 27 41.4	+6 12 35.94	+61.21	+44 16 5.9	9.999305
Oakland Californ.[4]) .	99	+37 47	+8 8 48	+80.30	+37 35 47	9.999460
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−2 3 2.05	−20.21	+46 17 1.3	9.999237
Odessa (Filiale Pulkowa)	—	+46 28 36.0	−2 3 2.19	−20.21	+46 17 1.1	9.999234
Oslo (Christiania) Mer.-Kr.	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Ottawa Mer.-Kr. . . .	85	+45 23 39.1	+5 2 51.98	+49.75	+45 12 3.5	9.999267
Oxford (Radcl. Obs.) . .	65	+51 45 33.9	+0 5 3.0	+ 0.83	+51 34 17.0	9.999104
Oxford (Univers.) . . .	64	+51 45 34.2	+0 5 0.4	+ 0.82	+51 34 17.3	9.999104
Oxford, Mississippi .	140	+34 22 12.6	+5 58 7.18	+58.83	+34 11 25.1	9.999546
Padua	38	+45 24 1.2	−0 47 29.15	− 7.80	+45 12 25.6	9.999263
Palermo	72	+38 6 44.0	−0 53 25.87	− 8.78	+37 55 28.9	9.999451
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	−0 9 20.93	− 1.53	+48 38 41.5	9.999177
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	−0 9 20.6	− 1.53	+48 37 48.2	9.999174
Peking	—	+39 54 23.0	−7 45 52.87	−76.53	+39 42 58.7	9.999401
Perth West.-Austr. . .	60	−31 57 10.7	−7 43 21.62	−76.12	−31 46 46.9	9.999597
Petersburg (Leningrad) (Akademie) .	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Petersburg (Leningrad) (Univers.) .	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Philadelphia[5]) . . .	74	+39 58 2.1	+5 1 6.88	+49.47	+39 46 37.5	9.999404
Plonsk[6])	—	+52 37 40.0	−1 21 31.9	−13.39	+52 26 28.2	9.999078
Pola	32	+44 51 48.6	−0 55 23.07	− 9.10	+44 40 12.9	9.999277
Porto Alegre[7]) Mer.-Kr.	—	−30 1 51	+3 24 53.2	+33.66	−29 51 49	9.999636
Portsmouth	—	+50 48 3	+0 4 24.8	+ 0.73	+50 36 41	9.999124
Posen (Poznań) . . .	85	+52 23 48.6	−1 7 30.60	−11.09	+52 12 35.4	9.999090

[1]) Dr. Max Mündler. — [2]) Yale University. Alte Sternwarte 45″.8 südlich, 1s.58 westlich. — [3]) Herr R. Bischofsheim. — [4]) Chabot Observatory. — [5]) Flower Obs. (Univ. of Pennsylvania). — [6]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [7]) Observatorio Regional do Rio Grande do Sul.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Potsdam (Astrophys. Obs.)	97	+52 22 56.0	— 0 52 15.86	— 8.58	+52 11 42.7	9.999091
Potsdam (Geod.Inst.) Turm	99	+52 22 54.8	— 0 52 16.11	— 8.58	+52 11 41.5	9.999091
Poughkeepsie[1]) . . .	61	+41 41 18	+ 4 55 33.6	+48.56	+41 29 47	9.999360
Prag (Univ.-Stw.) Turm .	197	+50 5 16.0	— 0 57 40.29	— 9.47	+49 53 50.9	9.999155
Prag (Safarik)	—	+50 4 24	— 0 57 48	— 9.49	+49 52 59	9.999142
Princeton N. J. (N. Stw.)[2])	75	+40 20 55.8	+ 4 58 39.44	+49.06	+40 9 29.7	9.999395
Providence[3])	171	+41 49 46.4	+ 4 45 37.64	+46.92	+41 38 15.2	9.999363
Pulkowa Zentr. d. Stw.	75	+59 46 18.5	— 2 1 18.57	—19.93	+59 36 12.3	9.998914
Quebec Canada . . .	90	+46 47 59.2	+ 4 44 52.71	+46.80	+46 36 24.8	9.999231
Quito	2846	— 0 14 0	+ 5 13 58.20	+51.58	— 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	— 1 36 28.11	—15.84	+56 46 30	9.998974
Rio de Janeiro . . .	63	—22 54 23.7	+ 2 52 41.52	+28.37	—22 46 6.0	9.999784
Rio de Janeiro (N. Stw.)	33	—22 53 41	+ 2 52 53.5	+28.40	—22 45 24	9.999782
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	— 0 49 55.36	— 8.19	+41 42 22.3	9.999354
Rom (Capitol) Mer.-Kr. .	65	+41 53 33.2	— 0 49 56.34	— 8.20	+41 42 1.9	9.999355
Rom (Vatican) Mer.-Kr. .	100	+41 54 12.4	— 0 49 48.26	— 8.18	+41 42 41.1	9.999357
Rousdon	157	+50 42 38	+ 0 11 58.9	+ 1.96	+50 31 16	9.999137
Rugby	119	+52 22 30	+ 0 5 2.0	+ 0.83	+52 11 16.7	9.999093
St. Louis Missouri .	—	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999433
San Fernando . . .	30	+36 27 42.0	+ 0 24 49.30	+ 4.08	+36 16 37.7	9.999488
San Francisco[4]) . .	—	+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453
Santiago de Chile (N. St.)	580	—33 33 44.2	+ 4 42 46.0	+46.44	—33 23 4.1	9.999595
Santiago de Chile (A. St.)	619	—33 26 25.4	+ 4 42 36.9	+46.42	—33 15 46.4	9.999600
Sétif	1120	+36 11 10	— 0 21 38.6	— 3.55	+36 0 7.7	9.999569
Simeïs	360	+44 24 11.1	— 2 15 58.1	—22.34	+44 12 35.6	9.999312
Sonneberg (Hoffmeister)	405	+50 21 29.5	— 0 44 42.87	— 7.34	+50 10 5.5	9.999163
Sonneberg (Erbisbühl)	640	+50 22 41.4	— 0 44 46.19	— 7.36	+50 11 17.5	9.999178
South Hadley	76	+42 15 18.2	+ 4 50 19	+47.69	+42 3 45.9	9.999346
Stará Dala[5])	113	+47 52 27.3	— 1 12 45.49	—11.95	+47 40 54.9	9.999206
Stockholm Mer.-Kreis	44	+59 20 32.7	— 1 12 13.97	—11.86	+59 10 21.4	9.998922
Stonyhurst	116	+53 50 40.0	+ 0 9 52.7	+ 1.62	+53 39 36.5	9.999056
Straßburg (N.St.). M.-Kr.[6])	144	+48 35 0.4	— 0 31 4.53	— 5.10	+48 23 29.9	9.999190
Sydney	44	—33 51 41.1	—10 4 49.54	—99.36	—33 40 58.2	9.999551
Tacubaya[7])	2311	+19 24 17.9	+ 6 36 46.71	+65.18	+19 17 3.0	9.999997
Tartu (Dorpat, Jurjew) Mer.-Kr.	67	+58 22 47.2	— 1 46 53.19	—17.56	+58 12 25.1	9.998946
Taschkent	479	+41 19 36.7	— 4 37 10.57	—45.53	+41 8 7.1	9.999398

[1]) Vassar College. — [2]) Alte Sternwarte 2″.0 nördlich, 1s.94 östlich; 65m. — [3]) Seagrave. Ladd Observatory 35″ nördlich, 1s.57 östlich. — [4]) Davidson Observatory. — [5]) Früher O-Gyalla. — [6]) Seit Anfang 1881. — [7]) Seit März 1883, früher in Chapultepec.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Teramo (Cerulli)	398	+42 39 27	− 0 54 55.8	− 9.02	+42 27 54	9.999358
Tokio	59	+35 40 21.4	− 9 18 10.09	− 91.69	+35 29 23.0	9.999509
Toronto	116	+43 40 1.3	+ 5 17 34.67	+ 52.17	+43 28 26.5	9.999313
Tortosa (Ebro-Stw.) M.-Kr.	54	+40 49 14	− 0 1 58	− 0.32	+40 37 46	9.999382
Toulouse Mer.-Kr. . . .	195	+43 36 44.0	− 0 5 51.2	− 0.96	+43 25 9.3	9.999320
Triest	23	+45 38 45.4	− 0 55 2.90	− 9.04	+45 27 9.9	9.999256
Tsingtau (Met.-astr. Stat.) .	—	+36 4 11.3	− 8 1 16.21	− 79.06	+35 53 9.8	9.999496
Tucson Arizona (Steward Obs.) .	757	+32 13 59.4	+ 7 23 47.68	+ 72.90	+32 3 32.6	9.999638
Turin Mer.-Kr.	276	+45 4 7.9	− 0 30 47.15	− 5.06	+44 52 32.2	9.999288
Turin (Pino Torinese) . .	618	+45 2 16.3	− 0 31 5.95	− 5.11	+44 50 40.6	9.999312
Upsala (N.Stw.) Pass.-Instr.	21	+59 51 29.4	− 1 10 30.13	− 11.58	+59 41 24.2	9.998909
Urbana Jll.	236	+40 6 20.2	+ 5 52 53.90	+ 57.97	+39 54 55.1	9.999412
Utrecht	12	+52 5 9.5	− 0 20 31.6	− 3.37	+51 53 54.4	9.999093
Valkenburg (Ignatius Coll.)	100	+50 52 29.3	− 0 23 19.91	− 3.83	+50 41 7.8	9.999129
Venedig	15	+45 26 10.5	− 0 49 22.12	− 8.11	+45 14 34.9	9.999261
Victoria B. C. (Dominion Obs.)	229	+48 31 15.7	+ 8 13 40.17	+ 81.18	+48 19 45.0	9.999197
Warschau[1]) Zentr. d. Stw.	121	+52 13 4.6	− 1 24 7.25	− 13.82	+52 1 50.3	9.999096
Warschau[2])	—	+52 13 10	− 1 24 4.8	− 13.81	+52 1 56	9.999088
Washington (Alte Stw.) .	31	+38 53 38.9	+ 5 8 12.13	+ 50.63	+38 42 19.4	9.999428
Washington (Neue Stw.) .	82	+38 55 14.0	+ 5 8 15.78	+ 50.64	+38 43 54.4	9.999431
Washington (Kath. Univ.) .	—	+38 56 14.8	+ 5 8 0.0	+ 50.60	+38 44 55.1	9.999425
Wellington Transit Instr.[3])	127	−41 17 3.8	−11 39 4.27	−114.84	−41 5 34.3	9.999375
West Point N.Y. (N. Stw.)[4])	170	+41 23 22.1	+ 4 55 50.6	+ 48.60	+41 11 52.3	9.999375
Wien (Alte Sternw.)	167	+48 12 35.5	− 1 5 31.61	− 10.76	+48 1 3.9	9.999201
Wien (Josephstadt)[5]) . . .	214	+48 12 53.8	− 1 5 25.17	− 10.74	+48 1 22.2	9.999204
Wien (Neue Sternw.) Zentr. .	240	+48 13 55.3	− 1 5 21.35	− 10.73	+48 2 23.8	9.999205
Wien (Ottakring)[6])	285	+48 12 46.7	− 1 5 10.97	− 10.71	+48 1 15.1	9.999209
Wien (Mil. Geogr. Inst.) . .	211	+48 12 40.5	− 1 5 26.24	− 10.75	+48 1 8.9	9.999203
Wien (Techn. Hochschule) .	200	+48 11 58.3	− 1 5 29.76	− 10.76	+48 0 26.7	9.999204
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	− 0 32 35.15	− 5.35	+53 20 46.4	9.999057
Williams-Bay Wisc.[7]) .	334	+42 34 12.6	+ 5 54 13.24	+ 58.19	+42 22 39.6	9.999356
Williamstown Mass. . .	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Wilna Pass.-Instr.	122	+54 40 59.1	− 1 41 8.76	− 16.61	+54 30 2.1	9.999036
Windsor N. S. W.[8]) . .	16	−33 36 30.8	−10 3 20.77	− 99.11	−33 25 50.2	9.999556
Wolfersdorf	279	+50 47 20.0	− 0 46 50.94	− 7.70	+50 35 58.0	9.999143
Zô-sè China	100	+31 5 48.0	− 8 4 44.82	− 79.63	+30 55 33.6	9.999619
Zürich Meridian-Kreis . .	468	+47 22 38.3	− 0 34 12.3	− 5.62	+47 11 4.8	9.999242

[1]) Universitäts-Sternwarte. — [2]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — [3]) Dominion Observatory. — [4]) Seit 1883. Alte Sternwarte 9″ nördlich, 1ˢ.2 östlich. — [5]) von Oppolzers Sternwarte. — [6]) v. Kuffner. — [7]) Yerkes Observatory. — [8]) J. Tebbutt. Neue Sternwarte, 0″.4 südlich von der alten.

Normalzeiten der wichtigeren Länder

a) An den Meridian von Greenwich angeschlossen

Normalzeit = Mittl. Ortszeit des Meridians	Bezeichnung	Staaten
östl. Gr.		
$11^h\ 30^m$	—	Neu Seeland
10 0	Ostaustralische Z.	Victoria, Neu Süd-Wales, Queensland, Tasmanien
9 30	—	Süd-Australien
9 0	—	Japan, Korea
8 0	Ostchinesische Küsten-Z.	Ostküste von China, West-Australien
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina
5 30	—	Indien, Ceylon
2 30	—	Deutsch Ostafrika
2 0	Osteuropäische Z.	Finnland, Estland, Lettland, Europ. Rußland, Bulgarien, Rumänien, Griechenland, Türkei, Palästina, Ägypten, Süd-Afrika
1 0	Mitteleuropäische Z. (M. E. Z.)	Dänemark, Deutschland, Italien, Luxemburg, Norwegen, Österreich, Ungarn, Schweden, Schweiz, Jugoslawien, Polen, Deutsch Südwest-Afrika
$0^h\ 0^m$	Westeuropäische Z. (Greenwich Z.)	Belgien, Frankreich, Großbritannien und Irland, Portugal, Spanien, Gibraltar, Algerien
westl. Gr.		
$3^h\ 0^m$	—	Ost-Brasilien
4 0	Atlantic St. Time	Mittel-Brasilien, Argentinien, Uruguay, Canada (Küste)
4 30	—	Venezuela
5 0	Eastern St. Time	Canada (Quebec, Ontario bis 82° 30′ westl.), Vereinigte Staaten (Ost-Zone), Chile, Panama, Peru, West-Brasilien
6 0	Central St. Time	Zentral-Zone von Canada und Vereinigte Staaten, Ostmexico
7 0	Mountain St. Time	Gebirgszone von Canada und Vereinigte Staaten, Westmexico
8 0	Pacific St. Time	Vereinigte Staaten (Pacifische Küste), Britisch Kolumbien
10 30	—	Sandwich Inseln

b) Nicht an den Meridian von Greenwich angeschlossen

Staaten	Meridian	Längendifferenz gegen Greenwich
Columbien	Bogota	$4^h\ 56^m\ 52.4^s$ W.
Ecuador	Quito	5 14 6.7 W.
Niederlande	Amsterdam	0 19 30.5 O.

Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs.

Das Jahrbuch gibt die Örter der *Wandelsterne* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind, wenn nicht ausdrücklich eine andere Zeit angegeben wird, in Welt-Zeit ausgedrückt; **Welt-Zeit ist identisch mit Bürgerlicher Zeit Greenwich.** Der bürgerliche Tag beginnt um Mitternacht, die Weltzeit-Stunden sind von 0^h bis 24^h durchgezählt. Die Beziehung zu der bis zum Jahrgang 1924 (einschließlich) im Jahrbuch verwendeten Mittleren Zeit Greenwich besteht darin, daß der astronomische mittlere Tag erst am Mittag des bürgerlichen Tages, also 12^h nach dessen Anfang beginnt. Somit ist 1925 Jan. 1, 0^h Weltzeit gleich 1924 Dez. 31, 12^h Mittlere Zeit Greenwich.

Die Örter der *Fixsterne* sind einmal als »Mittlere Sternörter« auf das mittlere Äquinoktium des Jahresanfangs bezogen, und dann in Ephemeridenform als scheinbare, auf das instantane wahre Äquinoktium bezogen, gegeben.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Sonnenephemeride (S. 2—38).

Der erste Teil der Sonnenephemeride (S. 2—19) gibt auf den linken Seiten für 0^h Welt-Zeit (= Mitternacht Greenwich) an jedem Tage:

1) Die Zeitgleichung = Mittlere Zeit *minus* Wahre Zeit.

2) Die geozentrischen, äquatorialen Koordinaten α, δ des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.

3) Die halbe Durchgangsdauer (in Sternzeit) der Sonnenscheibe durch den Meridian.

4) Den geozentrischen Halbmesser H der Sonnenscheibe, d. i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

1) Die Julianische Zeit, d. i. die Anzahl der seit Beginn der Julianischen Periode verflossenen mittleren Sonnentage.

2) Die Sternzeit für 0^h Welt-Zeit.

Um für einen anderen Erdort der westlichen Längendifferenz $\Delta\lambda$ (in Stunden) gegen Greenwich die Sternzeit in seiner Mitternacht zu erhalten, ist zu diesen Angaben zuzulegen: $9^s.8565\,\Delta\lambda$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten.

3) Die geozentrischen ekliptikalen Koordinaten λ, β der Sonne, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie log R, den Logarithmus der Entfernung R der Erde von der Sonne. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

4) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in $+50^0$ Breite; sie sind mit der Horizontalrefraktion $34'$ berechnet und gelten für den oberen Rand der Sonne. Um daraus für einen beliebigen anderen Ort zwischen $+30^0$ und $+60^0$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 340*, 341* zu benutzen.

Auf S. 20—37 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen geozentrischen äquatorialen Sonnenkoordinaten für 0^h und 12^h Welt-Zeit mit ihren ersten Differenzen. Am Fuß der Seite 37 finden sich die Zeiten für die Anfänge der Jahreszeiten und für das Peri- und Apogäum der Sonne.

Die Seite 38 enthält die Aberration, Parallaxe, mittlere Länge $L_\odot$ und mittlere Anomalie $M_\odot$ der Sonne im Intervall von je 10 Tagen.

Mondephemeride (S. 39—57).

Seite 39 enthält die Zeitangaben für die Phasen und das Peri- und Apogäum des Mondes.

Die Mondephemeride (S. 40—57) gibt auf den linken Seiten für 0^h Welt-Zeit (= Mitternacht Greenwich):

1) Die scheinbare Rektaszension und Deklination des Mondmittelpunktes mit den ersten Differenzen.

2) Die Äquatorial-Horizontalparallaxe $p_☾$ des Mondes.

3) Den geozentrischen Mondhalbmesser $r_☾$, d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.

4) Die Länge und Breite des Mondes, abgekürzt auf $0^0.001$.

Die rechten Seiten enthalten:

1) Für den oberen Durchgang des Mondes durch den Meridian von Greenwich die genäherten Angaben für die Rektaszension, Deklination und Parallaxe des Mondmittelpunktes, sowie die bürgerliche Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für 1^h westlicher Längendifferenz.

2) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in $+50^0$ Breite nebst Änderung für 1^h westlicher Längendifferenz; sie sind mit der Horizontalrefraktion

34' berechnet und gelten für den oberen Rand des Mondes. Um daraus für einen beliebigen anderen Ort zwischen $+30^0$ und $+60^0$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 342*, 343* zu benutzen.

Ephemeriden der Großen Planeten
(S. 58—112).

Die geozentrischen Örter der Planeten sind für Merkur, Venus, Mars, Jupiter, Saturn von Tag zu Tag, für Uranus und Neptun von 4 zu 4 Tagen für 0^h Welt-Zeit (= Mitternacht Greenwich) mit ihren ersten Differenzen gegeben, und zwar in scheinbaren, auf das momentane wahre Äquinoktium bezogenen Koordinaten. Die letzte Spalte gibt die bürgerliche Zeit (Greenwich) der oberen Kulmination in Greenwich.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für	Merkur	Halbmesser	. . . . .	3.34"		
»	Venus	»	. . . . .	8.78		
»	Mars	»	. . . . .	4.68		
»	Jupiter	»	(Äquatorial)	99.8,	(Polar)	92.6"
»	Saturn	»	(Äquatorial)	81.4,	(Polar)	73.4
»	Uranus	»	. . . . .	34.7		
»	Neptun	»	. . . . .	45		

Die heliozentrischen Ephemeriden der Planeten (S. 109—112) geben den Log. des Radiusvector, die Länge, deren Reduktion auf die Bahn und die Breite bezogen auf das mittlere Äquinoktium 1925.0.

☊ und i stellen die Bahnlage für die Epoche 1925.0 und das Normaläquinoktium 1925.0 dar.

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden. Für die Erde ist noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, Radiusvector und heliozentrische Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

Mittlere Örter von 925 Fixsternen (S. 2*—25*).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 33 des *Königlichen Astronomischen Rechen-Instituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch numerische Integration berechnet.

Ein * vor dem Namen weist auf eine Anmerkung am Fuß der Seite hin.

Unter Gr. stehen die visuellen Größen, welche aus der »Revised Harvard Photometry« in »Harvard Annals, vol. 50« entnommen sind, sofern nichts Anderes bemerkt ist. Wo für einen Stern zwei Größen gegeben sind, beziehen sich diese auf die Komponenten eines Doppelsterns. Die in den Anmerkungen gegebenen Größen für Doppelsternkomponenten und für die Extrema der Veränderlichen sind dem »Henry Draper Catalogue« entnommen.

Die Spektren sind aus dem Draper Katalog übernommen worden. Zusammengesetzte Spektren sind durch + gekennzeichnet. In anderen Fällen beziehen sich, wo 2 Spektren gegeben sind, diese auf die Komponenten eines Doppelsterns.

Scheinbare Örter von 579 Fixsternen (S. 26*—235*).

Die scheinbaren Rektaszensionen und Deklinationen der Fixsterne sind für den Moment der oberen Kulmination im Meridian von Greenwich gegeben.

Die Ephemeriden der 555 Sterne mit Deklinationen kleiner als 80°, deren scheinbare Örter von 10 zu 10 Sterntagen gegeben sind, enthalten die kurzperiodischen Mondglieder der Nutation nicht. Doch sind auf S. 165* für die Sterne mit Deklinationen über 60° die Größen a, b, a', b' gegeben, mit deren Hilfe diese Nutationsglieder leicht berechnet werden können. Das Datum des Tages, an welchem zwei Kulminationen stattfinden, ist in kleinem Druck vor der Rektaszensionsspalte angeführt.

Die jährliche Parallaxe ist bei folgenden Sternen berücksichtigt, bei denen sie 0".20 übersteigt und hinreichend verbürgt erscheint, nämlich:

Nr. 59	τ Ceti	mit	0.31	Nr. 538	α Centauri	mit	0.75
Nr. 127	ε Eridani	»	0.32	Nr. 745	α Aquilae	»	0.23
Nr. 257	α Can. maj.	»	0.38	Nr. 793	61 Cygni	»	0.30
Nr. 291	α Can. min.	»	0.33				

Von den im B. J. nicht mit Ephemeriden versehenen Sternen des N. F. K. besitzt noch Nr. 825, ε Indi, eine Parallaxe von 0".25.

Die Ephemeriden der auf S. 2*—24* eingeklammerten Sterne findet man in »Posiciones medias y aparentes de 350 estrellas«. (Suplemento al Almanaque Nautico.)

Es folgen die scheinbaren Örter von 20 Polsternen für jede obere Kulmination. Sie enthalten die kurzperiodischen Mondglieder nicht, jedoch sind deren Werte in besonderen Spalten gegeben.

Am Fuße der Ephemeriden ist der mittlere Ort eines jeden Sternes für den Anfang des Jahres und die Werte von $\sec\delta$ und $\operatorname{tg}\delta$ angegeben, welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden.

Auf den Seiten 226*—235* sind die scheinbaren, rechtwinkligen Koordinaten von vier polnahen Sternen gegeben. Sie beziehen sich auf ein Koordinatensystem, dessen positive x-Achse nach dem Frühlingspunkt und dessen positive y-Achse nach dem Punkt $\alpha = 6^h$, $\delta = 0^0$ gerichtet ist. Der Zusammenhang zwischen x, y und α, δ ist gegeben durch die Beziehungen: $x = \cos\delta\cos\alpha$, $y = \cos\delta\sin\alpha$. Die Angaben gelten für 12^h Sternzeit Greenwich und enthalten die kurzperiodischen Mondglieder der Nutation nicht, deren Werte jedoch in der letzten Spalte einer jeden Seite unter der Überschrift »Kurzperiod. Mondgl.« gegeben sind.

Als Quellen für die Koordinaten und Eigenbewegungen dieser vier Sterne sind benutzt worden:

für BD + 89⁰ 1: L. Courvoisier: Beobachtungen des Sterns BD 89⁰ 1 am großen Meridiankreis der Berliner Sternwarte. Astron. Nachr. Bd. **200,** 243,

für BD + 89⁰ 3: L. Courvoisier: Ephemeriden der Polsterne BD 89⁰3 und BD 89⁰37 für 1923. Astron. Nachr. Bd. **217,** 319,

für BD + 89⁰37: L. Courvoisier: Neue Position und Eigenbewegung des Polsterns BD +89⁰ 37. Astron. Nachr. Bd. **230,** 71,

für CPD — 89⁰38: Cape Annals Bd. XI, II, 244 für den Ort und eine briefliche Mitteilung für die Eigenbewegung.

Mit den an diesen Stellen gegebenen Werten findet man folgende mittleren Örter für 1930.0:

Name	Gr.	x	Jährliche Veränd. 1930.5	Jährliche Eigenbw.	y	Jährliche Veränd. 1930.5	Jährliche Eigenbw.
	M	"	"	"	"	"	"
BD+89° 1	10.56	− 79.03	−20.086	−0.024	+ 79.32	−0.028	−0.008
BD+89° 3	9.06	+122.22	−20.240	−0.003	+863.57	+0.019	−0.006
BD+89° 37	10.06	−861.80	−19.979	−0.011	−343.23	−0.180	+0.015
CPD−89° 38	9.5	−227.61	+20.140	+0.027	−307.46	−0.018	+0.031

Reduktionsgrößen (S. 236*—286*).

Auf die scheinbaren Örter der Sterne folgt S. 236* eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer *ersten* Form: A, B, C, D, E; A', B' gegeben für 12^h Sternzeit des Meridians von Greenwich:

1) Auf S. 237* im Intervall von 10 Sterntagen.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 256*—264* für jeden Sterntag. Hier sind die numerischen Werte von A, B, C und D mit ihren Differenzen gegeben und die kurzperiodischen Mondglieder A' und B' mit angeführt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Welt-Zeit (bürgerliche Zeit Greenwich) vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der *zweiten* Form: f, $\log g$, G, $\log h$, H, $\log i$ und i, sowie f', g' und G' sind S. 238*—255* von Tag zu Tag für 0^h Welt-Zeit (= Mitternacht Greenwich) gegeben.

Auch hier findet sich eine Spalte, t überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt. Ferner ist die Sternzeit Greenwich für 0^h Welt-Zeit gegeben.

Die Seiten mit ungerader Seitenzahl enthalten außer den schon erwähnten f', g', G' noch folgende Größen:

a) ψ = Allgemeine Präzession seit Jahresanfang.
b) $\varDelta\psi$ = Langperiodische Glieder der Nutation in Länge.
c) $\varDelta\psi'$ = Kurzperiodische Glieder der Nutation in Länge.
d) ε = Wahre Schiefe der Ekliptik.
e) $\varDelta\varepsilon$ = Langperiodische Glieder der Nutation in Schiefe.
f) $\varDelta\varepsilon'$ = Kurzperiodische Glieder der Nutation in Schiefe.

Die mittlere Schiefe der Epoche erhält man durch Subtraktion der Gesamtnutation ($\varDelta\varepsilon + \varDelta\varepsilon'$) von der wahren Schiefe.

Auf S. 265* findet sich eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1930.0.

S. 266* enthält eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium 1930.0.

Die Tafeln auf Seite 268*—279* enthalten, in Einheiten der vierten Dezimale, die Größen p, q, r, welche die Bedeutung haben:

$$p = [-g\cos(G+\alpha)\sin\delta - h\cos(H+\alpha)]\cdot \mathrm{arc}\,1'$$
$$q = [-g\sin(G+\alpha) \qquad - h\sin(H+\alpha)\sin\delta]\cdot \mathrm{arc}\,1'$$
$$r = [-h\cos(H+\alpha)\cos\delta + i\sin\delta]\cdot \mathrm{arc}\,1'$$

Sie dienen dazu, bei Anschlußbeobachtungen die gemessenen scheinbaren Rektaszensions- und Deklinationsdifferenzen in mittlere, für den Jahresanfang geltende zu verwandeln. Es ist:

Red. der Rektaszensionsdiff. a. d. Jahresanf. $= p\cdot\Delta\alpha^{\mathrm{m}}\cdot\sec\delta + q\cdot\Delta\delta'\cdot\frac{1}{15}\sec^2\delta$,

» » Deklinationsdiff. » » » $= -q\cdot 15\cdot\Delta\alpha^{\mathrm{m}} + r\Delta\delta'$,

worin $\Delta\alpha^{\mathrm{m}}$ die Rektaszensionsdifferenz in Zeitminuten, $\Delta\delta'$ die Deklinationsdifferenz in Bogenminuten bezeichnet. Die Reduktion der gemessenen Rektaszensionsdifferenz ergibt sich in Zeitsekunden die Reduktion der gemessenen Deklinationsdifferenz in Bogensekunden.

Ein ausführliches Beispiel für die Benutzung dieser Tafeln ist im Jahrgang 1927, S. 472 enthalten.

Die Seite 280* enthält eine Tafel zur Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1930.0 auf das Normaläquinoktium 1925.0. Man findet die auf das Normaläquinoktium 1925.0 bezogene Koordinatendifferenz, indem man an der auf das mittlere Äquinoktium 1930.0 bezogenen Rektaszensionsdifferenz die differentielle Präzession $\Delta p_\alpha^{\mathrm{s}}$ und an der Deklinationsdifferenz die differentielle Präzession $\Delta p_\delta''$ anbringt:

$$\Delta p_\alpha^{\mathrm{s}} = a_1\,\mathrm{tg}\,\delta\cdot\Delta\alpha^{\mathrm{m}} + a_2\,\frac{1}{15}\sec^2\delta\cdot\Delta\delta',$$
$$\Delta p_\delta'' = d_1\cdot\Delta\alpha^{\mathrm{m}}.$$

Die Koeffizienten a_1, a_2 und d_1 sind in der Tafel auf S. 280* enthalten und haben die Bedeutung

$$a_1 = 60\,(n)\ \mathrm{arc}\,1''\cos\alpha$$
$$a_2 = 60\,(n)\ \mathrm{arc}\,1''\sin\alpha$$
$$d_1 = -900\,(n)\ \mathrm{arc}\,1''\sin\alpha.$$

$\Delta\alpha^{\mathrm{m}}$ und $\Delta\delta'$ sind die auf das mittlere Äquinoktium 1930.0 bezogenen Rektaszensions- und Deklinationsdifferenzen in Zeit- bez. Bogenminuten. Nach den angegebenen Formeln findet man die differentielle Präzession für Rektaszension in Zeitsekunden, diejenige für Deklination in Bogensekunden.

Die auf den Seiten 281*—282* gegebenen Größen f, $\log g$ und G dienen zur Übertragung der Örter von dem *mittleren* Normaläquinoktium 1925.0 auf das jedesmalige *wahre* Äquinoktium. Die Berücksichtigung des Einflusses der Variatio saecularis bei dieser Übertragung ist durch die Tafel auf S. 283* gegeben.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium 1930.0 auf das Normaläquinoktium 1925.0 befindet sich auf den Seiten 284*—286*.

Die hier tabulierten Größen sind gerechnet nach den Formeln:

$$A = (m) + \frac{\nu^2}{4} \sin 2a$$

$$A_1 = \nu \sin a$$

$$A_2 = \frac{\nu^2}{2} \sin 2a$$

$$D = \nu \cos a$$

$$D_1 = -\frac{\nu^2}{2} \sin^2 a,$$

wobei $\nu = \sin(n)$, $a = \alpha_{1930.0} + 90^0 - (N)$. Betreffs der Größen (m), (n) und $90^0 - (N)$ vgl. S. 266*.

Sonnen- und Mondfinsternisse (S. 288*—293*).

Die bei den Sonnenfinsternissen gegebenen Besselschen Elemente dienen in der folgenden Weise zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte:

Mit einer Ausgangszeit T (siehe weiter unten) entnimmt man der Elemententabelle die Werte:

x, y, $\log\sin d$, $\log\cos d$, μ, l ($l^{(a)}$ für äußere, $l^{(i)}$ für innere Berührung), $\log \operatorname{tang} f$ ($f^{(a)}$ für äußere, $f^{(i)}$ für innere Berührung), x' und y'.

Mit ihnen rechnet man das folgende Formelsystem durch:

$$(1)\quad \begin{cases} \xi = c\cos\varphi\sin(\mu-\lambda) \\ \eta = s\sin\varphi\cos d - c\cos\varphi\sin d\cos(\mu-\lambda) \\ \zeta = s\sin\varphi\sin d + c\cos\varphi\cos d\cos(\mu-\lambda) \\ \xi' = [7.6398-10]\, c\cos\varphi\cos(\mu-\lambda) \\ \eta' = [7.6398-10]\, \xi\sin d, \end{cases}$$

worin φ die geographische Breite, λ die westliche Länge (von Greenwich) des Beobachtungsortes bezeichnen, s und c aus der Tafel auf S. 354* zu entnehmen sind.

Alsdann:

$$(2)\quad \begin{cases} \left.\begin{aligned} m\sin M &= x - \xi \\ m\cos M &= y - \eta \end{aligned}\right\} m > 0 \\ \left.\begin{aligned} n\sin N &= x' - \xi' \\ n\cos N &= y' - \eta' \end{aligned}\right\} n > 0 \end{cases}$$

Nun berechnet man aus:

$$(3)\quad L = l - \zeta \operatorname{tang} f$$

$L^{(a)}$ mit $l^{(a)}$ und $f^{(a)}$, $L^{(i)}$ mit $l^{(i)}$ und $f^{(i)}$; dann aus:

$$(4)\quad \sin\psi = \frac{m \sin(M - N)}{L}$$ [1]

mit $L^{(a)}$ und $L^{(i)}$ je zwei Werte $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$, von denen der eine zum Eintritt der Erde in den Halb- oder Kernschatten-Kegel, der andere zu ihrem Austritt aus ihm gehört. Diesen vier Werten $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$ entsprechen vier Werte $\tau^{(a_1)}$, $\tau^{(a_2)}$ und $\tau^{(i_1)}$, $\tau^{(i_2)}$ (in Zeitminuten) nach

$$(5)\quad \tau = -\frac{m \cos(M - N)}{n} + \frac{L \cos\psi}{n},$$

um welche die Ausgangszeit T zu verbessern ist, um die Zeit der gesuchten Phase zu erhalten. Ist T die gesuchte Phasenzeit, so wird $\tau = 0$ werden. Man muß daher das Formelsystem (1) bis (5) mit steigenden Näherungen solange durchrechnen, bis dieser Fall eintritt, d. h. bis das Formelsystem sich schließt. Zu diesem Zweck beginnt man mit einem Näherungswert T_1, für den man, wenn kein besserer bekannt sein sollte, eine beliebige Zeit nahe der Mitte der Finsternis nehmen mag, und rechnet die erste genäherte Korrektion τ_1; dann wiederholt man die Rechnung mit $T_2 = T_1 + \tau_1$, dann mit $T_3 = T_2 + \tau_2 = T_1 + \tau_1 + \tau_2$ u. s. f. bis $\tau_n = 0$ sich ergibt. T_n ist dann die gesuchte Welt-Zeit des Kontaktes, die durch Hinzufügung der Längendifferenz in mittlere Ortszeit zu verwandeln ist. Die Rechnung ist für jede Berührung gesondert durchzuführen.

Die Positionswinkel der einzelnen Phasen, in üblicher Weise vom Punkt größter Deklination nach Osten gezählt, folgen aus den Werten der letzten Näherung (Größen mit dem Index n) nach

$$P = N + \psi.$$

Will man den Winkelabstand Q vom Punkte der größten Höhe haben, so hat man von P noch den parallaktischen Winkel γ abzuziehen, der aus

$$\left.\begin{aligned} p \sin\gamma &= \xi \\ p \cos\gamma &= \eta \end{aligned}\right\} p > 0$$

folgt, also $$Q = P - \gamma.$$

Um die Zeit der größten Phase, T_{max}, zu erhalten, hat man die beiden Formelsysteme (1) und (2) mit einem Näherungswerte T_1 durchzurechnen,

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[1]) Wird der Winkel ψ bei der ersten Näherungsrechnung imaginär, so rechne man τ unter der Annahme $\psi = 90^0$ aus $\tau = -\frac{m \cos(M - N)}{n}$; bleibt ψ auch in der weiteren Rechnung imaginär, so deutet dies an, daß an dem betreffenden Orte keine Sonnenfinsternis stattfindet.

daraus $T_2 = T_1 - \frac{m \cos(M-N)}{n}$ zu entnehmen und die Rechnung solange fortzusetzen, bis die Korrektion der Ausgangszeit o wird. Als Näherungswert $\overline{T_1}$ wählt man zweckmäßig das Mittel der beiden Werte von T_2 für die Berührungszeiten.

Die Größe der Verfinsterung, i, in Teilen des Sonnendurchmessers ausgedrückt, ergibt sich dann aus:

$$i = \frac{L^{(a)} - m}{2\,L^{(a)} - 0.5450},$$

worin $L^{(a)}$ und m die zur Zeit T_{max} gehörigen Werte bedeuten.

Sternbedeckungen (S. 294*—297*)

Die Seiten 294*—297* enthalten die Elemente von Stern- und Planetenbedeckungen durch den Mond, welche in dem Gebiet zwischen den Meridianen 0^h und 2^h östliche Länge von Greenwich und den Breitenkreisen $+45^0$ und $+55^0$ sichtbar sind. Die Auswahl ist auf Sterne bis zur Größe $6^m.0$ beschränkt.

Mit den in der Zusammenstellung der Elemente gegebenen Werten geschieht die Berechnung der Berührungszeiten eines Sternes mit dem Mondrand für einen Ort mit den geographischen Koordinaten φ und λ (λ positiv, wenn westlich von Greenwich) auf folgende Weise:

Aus der auf den Seiten 294*—297* enthaltenen Welt-Zeit T der geozentrischen Konjunktion von Mond und Stern findet man die Welt-Zeit $T+t$ der topozentrischen Konjunktion durch Berechnung der Größen:

$$h_0 = H - \lambda$$

$$\xi_0 = c \cos\varphi \sin h_0 \qquad (c \text{ und später } s \text{ aus der Tafel auf S. } 354^*)$$

$$\xi' = [9.4192-10]\; c \cos\varphi \cos \tfrac{4}{3}\, h_0$$

$$t = \frac{\xi_0}{x' - \xi'}$$

t ergibt sich in Stunden mittlerer Zeit. Das Vorzeichen entspricht dem von h_0.

Für die Zeit $T+t$ berechne man die folgenden Größen, in denen $t_0 = 1.0027\, t$ ist.

$$\xi = c \cos\varphi \sin(h_0 + t_0)$$

$$\eta = s \sin\varphi \cos\delta - c \cos\varphi \sin\delta \cos(h_0 + t_0) = \eta_1 - \eta_2$$

$$\xi' = [9.4192-10]\; c \cos\varphi \cos(h_0 + t_0)$$

$$\eta' = [9.4192-10]\; \xi \sin\delta$$

$$x = x'\, t$$

$$y = Y + y'\, t$$

Aus den Beziehungen:

$$\left.\begin{aligned} m \sin M &= x - \xi \\ m \cos M &= y - \eta \end{aligned}\right\} m > 0$$

$$\left.\begin{aligned} n \sin N &= x' - \xi' \\ n \cos N &= y' - \eta' \end{aligned}\right\} n > 0$$

$$\sin\psi = [0.5646]\, m \sin(M - N),$$

ψ zwischen $+90^0$ und -90^0, berechne man

$$\tau = -\frac{[1.7782]\,m}{n}\cos(M-N) \mp \frac{[1.2135]}{n}\cos\psi$$

$$d\tau = \frac{[6.7591-10]\,\tau^2}{n\cos\psi}\left[\eta_2\cos(N\mp\psi) - \xi\sin(N\mp\psi)\right],$$

wobei die oberen Vorzeichen für den Eintritt, die unteren für den Austritt gelten. Die eingeklammerten Zahlen bedeuten Logarithmen. τ und $d\tau$ ergeben sich in Zeitminuten. Werden die für den Eintritt geltenden Werte mit τ' und $d\tau'$ bezeichnet, die für den Austritt geltenden mit τ'' und $d\tau''$, so ist die Welt-Zeit des

$$\text{Eintritts} = T + t + \tau' + d\tau'$$
$$\text{Austritts} = T + t + \tau'' + d\tau''.$$

Als Kontrolle berechne man die Werte von x, y, ξ, η für die so gefundenen Berührungszeiten. Sind diese richtig, so muß die Beziehung erfüllt sein:

$$\sqrt{(x-\xi)^2 + (y-\eta)^2} = 0.2725$$

Ist $m\sin(M-N) > 0.2725$, so tritt für den betreffenden Beobachtungsort keine Bedeckung des Sternes ein.

Die Positionswinkel des Sternes inbezug auf den Mondmittelpunkt für die Zeiten des Ein- und Austritts folgen aus

$$P_E = N - \psi - dP \text{ für den Eintritt,}$$
$$P_A = N + \psi + dP \pm 180^0 \text{ für den Austritt,}$$

wobei die Winkel $N-\psi$ und $N+\psi$ aus der Rechnung für $d\tau$ entnommen werden können, und dP in Graden ausgedrückt aus

$$dP = \frac{[7.3038-10]\,\tau^2}{\cos\psi}(\eta_2\sin N + \xi\cos N)$$

folgt.

Mondbewegung und Lage des Mondäquators gegen den Erdäquator (S. 298*).

Auf S. 298* finden sich:

☊, Aufsteigender Knoten der Mondbahn auf der Ekliptik
$L_☾$, Mittlere Länge des Mondes
$M_☾$, Mittlere Anomalie des Mondes
i, Neigung des Mondäquators gegen den Erdäquator
☊', Aufsteigender Knoten des Mondäquators auf dem Erdäquator
$\varDelta$, Stück des Mondäquators zwischen Ekliptik und Erdäquator

☋, der aufsteigende Knoten des Mondäquators auf der Ekliptik, ist gleich dem absteigenden Knoten der Mondbahn, also

$$☋ = ☊ \pm 180^0.$$

Vom Jahrgang 1926 ab sind die Brownschen Mondtafeln verwendet. Die Größen i, $\varDelta$ und ☊' berechnen sich aus:

$$\sin\frac{1}{2}(\varDelta + ☊')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon - J)\sin\frac{1}{2}☋$$

$$\cos\frac{1}{2}(\varDelta + ☊')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon + J)\cos\frac{1}{2}☋$$

$$\sin\frac{1}{2}(\Delta - \Omega')\sin\frac{1}{2}i = \sin\frac{1}{2}(\varepsilon - J)\sin\frac{1}{2}\vartheta$$

$$\cos\frac{1}{2}(\Delta - \Omega')\sin\frac{1}{2}i = \sin\frac{1}{2}(\varepsilon + J)\cos\frac{1}{2}\vartheta;$$

dabei ist J, die Neigung des Mondäquators gegen die Ekliptik, nach F. Hayn (Astr. Nachr. Bd. 199, S. 263) zu $J = 1^0\,32'\,20''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 298* gemachten Angaben über die Elemente der Mondbahn und des Mondäquators werden, teilweise in Verbindung mit den Größen $L_\odot$ und $M_\odot$ auf S. 38, zu verschiedenen Zwecken verwendet:

1) Als Argumente für die Berechnung der Reduktionsgrößen A, B, C, D, E, A', B'.

2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche (siehe darüber den folgenden Abschnitt).

3) Bei Berechnung der *optischen* und *physischen* Libration des Mondes.

a) Für die Berechnung der *optischen* Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 7 (S. 383*) gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik τ, ϱ, σ haben die Werte:

$$\tau = -\ 13''\sin M_{☾} + 65''\sin M_\odot + 26''\sin 2(L_{☾} - M_{☾} - \Omega)$$

$$\varrho = -106''\cos M_{☾} + 34''\cos(2L_{☾} - M_{☾} - 2\Omega) - 11''\cos 2(L_{☾} - \Omega)$$

$$\sigma\sin J = -108''\sin M_{☾} + 34''\sin(2L_{☾} - M_{☾} - 2\Omega) - 11''\sin 2(L_{☾} - \Omega)$$

Diese Zahlenangaben beruhen auf der Annahme $f = 0.73$, worüber F. Hayn (Astr. Nachr. Bd. 199, S. 264) einzusehen ist.

Ephemeride für den Mondkrater Mösting A.

(S. 299*—303*).

Die Ephemeride des Mondkraters Mösting A dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Beobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für 0^h Welt-Zeit (= Mitternacht Greenwich) und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_{☾} - \alpha_k$ in Rektaszension und $\delta_{☾} - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater, vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des Kraters, welche von der des Mondes $p_{☾}$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Beobachtungszeit. Fügt man alsdann $\alpha_☾ - \alpha_k$ und $\delta_☾ - \delta_k$ zum geozentrischen Ort des Kraters (die Parallaxe wird mit p_k und δ_k, der Deklination des Kraters, berechnet), so hat man die geozentrische Rektaszension und Deklination des Mondes für die Beobachtungszeit.

Hat man einen Punkt der Mondoberfläche mikrometrisch an Mösting A angeschlossen, so bestimme man zunächst die topozentrischen, d. h. mit Parallaxe behafteten Koordinatendifferenzen $\alpha'_☾ - \alpha'_k$ und $\delta'_☾ - \delta'_k$ zwischen Mondmittelpunkt und Mösting A aus folgenden Identitäten:

$$\alpha'_☾ - \alpha'_k = \alpha_☾ - \alpha_k + (\alpha'_☾ - \alpha_☾) - (\alpha'_k - \alpha_k)$$
$$\delta'_☾ - \delta'_k = \delta_☾ - \delta_k + (\delta'_☾ - \delta_☾) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen topozentrischen Abstände zwischen der Mondmitte und Mösting A mit den mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die topozentrische Lage des letzteren gegen die Mondmitte und kann hieraus mit Hilfe von $\alpha'_☾$ und $\delta'_☾$ und den Angaben auf Seite 298* die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die topozentrische AR. und Dekl. des an Mösting A angeschlossenen Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_☾) \cos \tfrac{1}{2} (\delta' + \delta'_☾)$$
$$s \cos \pi_m = \delta' - \delta'_☾$$
$$\pi = \pi_m - \tfrac{1}{2} (\alpha' - \alpha'_☾) \sin \tfrac{1}{2} (\delta' + \delta'_☾)$$
$$\sin (K + s) = \sin s \operatorname{cosec} h'.$$

h' ist der Abstand des Kraters vom Mondschwerpunkt, gesehen vom Beobachtungsort aus, der aus h, dem vom Erdmittelpunkt aus gesehenen Abstand, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers 15′ 32″.59 (nach J. Peters, Astr. Nachr. Bd. 138, S. 147) eingesetzt werden.

$$\sin d = -\sin \delta'_☾ \cos K + \cos \delta'_☾ \sin K \cos \pi$$
$$\cos d \cos (a - \alpha'_☾) = -\cos \delta'_☾ \cos K - \sin \delta'_☾ \sin K \cos \pi$$
$$\cos d \sin (a - \alpha'_☾) = \sin K \sin \pi$$
$$\sin \beta = \sin d \cos i - \cos d \sin i \sin (a - ☊')$$
$$\cos \beta \sin \lambda' = \sin d \sin i + \cos d \cos i \sin (a - ☊')$$
$$\cos \beta \cos \lambda' = \cos d \cos (a - ☊')$$
$$\lambda = \lambda' - 180° - L_☾ - (\Delta - ☋).$$

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$d\lambda = +13'' \sin M_{☾} - 65'' \sin M_{\odot} - 26'' \sin 2(L_{☾} - M_{☾} - \Omega)$$
$$+ \operatorname{tg}\beta\,[-106'' \cos(L_{☾} - M_{☾} - \Omega + \lambda) + 34'' \cos(L_{☾} - M_{☾} - \Omega - \lambda)$$
$$- 11'' \cos(L_{☾} - \Omega - \lambda)]$$
$$d\beta = +108'' \sin(L_{☾} - M_{☾} - \Omega + \lambda) + 34'' \sin(L_{☾} - M_{☾} - \Omega - \lambda)$$
$$- 11'' \sin(L_{☾} - \Omega - \lambda)$$

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters:

$$\lambda_{\circ} = \lambda + d\lambda, \qquad \beta_{\circ} = \beta + d\beta$$

Der Berechnung der Ephemeride des Kraters Mösting A liegen folgende von F. Hayn ermittelten Konstanten (Astr. Nachr. Bd. 199, S. 263) zugrunde:

$$\lambda_{\circ} = -5^{\circ}\ 10'\ 7'', \qquad \beta_{\circ} = -3^{\circ}\ 11'\ 2''$$
$$h = 15'\ 33''.4$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -13'' \sin M_{☾} + 65'' \sin M_{\odot} + 26'' \sin 2(L_{☾} - M_{☾} - \Omega)$$
$$d\beta = -108'' \sin(L_{☾} - M_{☾} - \Omega + \lambda_{\circ}) - 34'' \sin(L_{☾} - M_{☾} - \Omega - \lambda_{\circ})$$
$$+ 11'' \sin(L_{☾} - \Omega - \lambda_{\circ}),$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A sind:

$$\lambda = \lambda_{\circ} + d\lambda, \qquad \beta = \beta_{\circ} + d\beta.$$

Die Formeln zur Berechnung der Ephemeride siehe in den Erläuterungen zum Jahrbuch 1916.

Jupitertrabanten (S. 304*—305*).

Die Seiten 304* und 305* enthalten die Zeitangaben (in Welt-Zeit) für die Verfinsterungen der vier hellen Jupitertrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E. und A. unterschieden.

Saturnsring (S. 306*—309*, 322*).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsringes haben die folgende Bedeutung:

α Große Achse des Saturn.

β Kleine Achse des Saturn.

p_a Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Große Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.

N Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.

J Neigung der Ringebene gegen den Erdäquator.

ω Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene.

Es liegen folgende Bestimmungen nach Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial $17''.47$ Polar $15''.65$

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25

$$\Omega_1 = 167^\circ\ 57'.0 \quad \text{und} \quad i_1 = 28^\circ\ 5'.6;$$

Durchmesser des Ringes in der Entfernung 9.53887

$$2R = 39''.35$$

Saturnstrabanten (S. 310*—332*).

Die Berechnungen über die Saturnstrabanten sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. XI abgeleiteten, in Astr. Nachr. Bd. 162, S. 325 u. ff. und von G. Struve in Veröff. Berlin-Babelsberg VI. 1 weiter verbesserten Elementen durchgeführt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse $= \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

Die den Ephemeriden zugrunde liegenden Elemente sind:

MIMAS (II, Seite 195)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 127^0\ 19'.0$$
$$n = 381^0.9945$$
$$\delta l = -44^0.243 \sin(116^0.46 + 5^0.075\,t)$$
$$-0^0.75 \sin 3\,(116^0.46 + 5^0.075\,t)$$
$$l_1 = E_0 + n t_d + \delta l$$
$$\Theta = 54^0.7 - 365^0.3\,t$$
$$\gamma = 1^0\ 36'.5$$
$$\Pi_1 = 107^0.2 + 365^0.3\,t$$
$$e = 0.0190$$
$$a = 26''.814$$

ENCELADUS (II, Seite 183)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 199^0\ 19'.8$$
$$n = 262^0.73199$$
$$\delta l = +11'.24 \sin(143^0 + 92^0.4\,t)$$
$$+20'.0 \sin(75^0 + 29^0.3\,t)$$
$$l_1 = E_0 + n t_d + \delta l$$
$$\Theta = 328^0 - 152^0.7\,t$$
$$\gamma = 1'.4$$
$$\Pi_1 = 308^0.38 + 123^0.43\,t$$
$$e = 0.0046$$
$$a = 34''.401$$

TETHYS (II, Seite 195)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 284^0\ 31'.0$$
$$n = 190^0.69795$$
$$\delta l = +118'.90 \sin(116^0.46 + 5^0.075\,t)$$
$$+2'.02 \sin 3\,(116^0.46 + 5^0.075\,t)$$
$$l_1 = E_0 + n t_d + \delta l$$
$$\Theta = 110^0.55 - 72^0.5\,t$$
$$\gamma = 1^0\ 4'.36$$
$$e = 0.0000$$
$$a = 42''.586$$

DIONE (II, Seite 183)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 253^0\ 51'.4$$
$$n = 131^0.534955$$
$$\delta l = -1'.21 \sin(143^0 + 92^0.4\,t)$$
$$-2'.13 \sin(75^0 + 29^0.3\,t)$$
$$l_1 = E_0 + n t_d + \delta l$$

$\Theta = 276^0 - 31^0.0\ t$

$\gamma = 4'.0$

$\Pi_1 = 165^0 + 31^0.0\ t$

$e = 0.0020$

$a = 54''.543$

RHEA (G. Struve, Berlin-Bbg. VI, 1, Seite 16)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 358^0\ 23'.8$

$n = 79^0.690087$

$E - E_0 = + 4'.95 \sin(343^0.4 - 10^0.1\ t)$

$l = E_0 + n t_d + (E - E_0)$

$(\Omega - \Omega_1) \sin i_1 = 20'.74 \sin(343^0.36 - 10^0.10 t) - 0'.38 + 1'.00 \sin(48^0.5 - 0^0.50 t)$

$i - i_1 = 20'.74 \cos(343^0.36 - 10^0.10 t) - 2'.79 + 1'.00 \cos(48^0.5 - 0^0.50 t)$

$\Pi = 276^0.25 + 0^0.53\ t + 17^0.64 \sin[9^0.5\ (t - 1879.59)]$

$e = 0.00098 + 0.00030 \cos[9^0.5\ (t - 1879.59)]$

$a = 76''.170$

Ω_1 und i_1 bezeichnen die Lage des Saturnsringes.

TITAN (II, Seite 172)

Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$E_0 = 260^0\ 25'.1$

$n = 22^0.577009$

$E - E_0 = + 4'.05 \sin(47^0.8 - 0^0.51\ t)$

$l = E_0 + n t_d + (E - E_0)$

$\Omega = 167^0\ 51'.2 + 35'.84 \sin(47^0.8 - 0^0.506\ t) + 0'.837\ t$

$i = 27^0\ 28'.4 + 16'.88 \cos(47^0.8 - 0^0.506\ t)$

$\Pi = 276^0\ 15' + 31'.7\ t + 22'.0 (\sin 2g - \sin 2g_0)$

$e = 0.02886 + 0.000186\ (\cos 2g_0 - \cos 2g)$

$g = \Pi - \Omega - 4^0.5$

$g_0 = g$ für $t = 0$

$a = 176''.578$

HYPERION (II, Seite 290)

Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$E_0 = 304^0.53$

$n = 16^0.919983$

$\delta l = 9^0.16 \sin(200^0.5 + 0^0.56206\ t_d)$

$l = E_0 + n t_d + \delta l$

Äquinoktium 1890.0. Epoche 1890.0 + t

$\Omega = 167^0\ 49'.7 + 42'.4 \sin(47^0.8 - 0^0.50 t) + 78'.1 \sin(121^0.7 - 2^0.0 t)$

$i = 27^0\ 20'.8 + 19'.6 \cos(47^0\ 8 - 0^0.50 t) + 36'.2 \cos(121^0.7 - 2^0.0 t)$

Epoche und Äquinoktium: 1888.890 + t

$$\Pi = 276^{0}.50 - 18^{0}.663\,t + 14^{0}\,0 \sin(-0^{0}\,84 + 19^{0}.191\,t) - 1^{0}.5 \sin(-1^{0}.68 + 38^{0}.382\,t)$$

$$e = 0.1043 + 0.0230 \cos(-0^{0}.84 + 19^{0}.191\,t) + \delta e$$

$$e\delta e = -0.00044 \cos(200^{0}.5 + 0^{0}.56206\,t_d)$$

$$a = 213''.92 + \delta a$$

$$\delta a = -0\,00354\,a \cos(200^{0}.5 + 0^{0}.56206\,t_d).$$

JAPETUS (I, Seite 87; II, Seite 139)

Epoche: 1885 Sept. 1.0 Mittl. Zt. Grw.

$E_0 = 75^{0}\ 26'.4$ $\qquad i = 18^{0}\ 28'.3 - 0'.54\,t$

$n = 4^{0}\,537997$ $\qquad \Pi = 354^{0}\ 30' + 7'\,9\,t$

$l = E_0 + n\,t_d$ $\qquad e = 0.02836 + 0.000015\,t$

$\Omega = 142^{0}\ 12'.4 - 1'.48\,t$ $\qquad a = 514''.59$

Hierin bedeuten:

l_1, l = Mittlere Länge in der Bahn

n = Tropische mittlere tägliche Bewegung

δl = Libration

t_d = Anzahl der Tage seit der Anfangsepoche

t = Anzahl der Jahre seit der Anfangsepoche

Θ = Knoten auf dem Saturnsäquator

Ω = Knoten auf der Ekliptik

γ = Neigung der Trabantenbahn gegen den Saturnsäquator

i = Neigung der Trabantenbahn gegen die Ekliptik

Π_1, Π = Perisaturnium

e = Exzentrizität

a = Halbachse der Trabantenbahn in der mittleren Entfernung $(\Delta) = 9.53887$

l_1, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Zunächst sind für die sechs inneren Trabanten auf den Seiten 310* bis 318* die Hilfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\Delta)}{\Delta}\,\frac{1}{1+\zeta}\,\frac{r}{a}\,\sin(u-U)$$

$$y = \frac{a(\Delta)}{\Delta}\,\frac{1}{1+\zeta}\,\frac{r}{a}\,\sin B \cos(u-U).$$

$(\varDelta) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, $\varDelta$ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt. Die Größen L und $(v-M)$ sind auf den Seiten 310*—318* und 320*—321* zu finden. $\log \frac{1}{1+\zeta}$ ist auf Seite 322* enthalten.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\varDelta)}{\varDelta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\varDelta)}{\varDelta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \left[\cos(u-U) + \sin\gamma \operatorname{cotg} B \sin(u-\vartheta)\right].$$

Die Werte von ϑ, der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich auf Seite 322*; auch ist hier für Rhea γ, weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben.

Will man aus x und y die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p-P) = x$$

$$s \cos(p-P) = y$$

$$\varDelta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\varDelta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 323*—328* finden sich für die äußeren Trabanten Hyperion und Japetus, außer den Hilfsgrößen U, B und P, die genäherten Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet.

Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind auf das mittlere Äquinoktium der Epoche bezogen.

Zum Schluß enthalten die Seiten 329*—332* die Zeitangaben (in Welt-Zeit) für die östlichen Elongationen von Mimas, Enceladus, Tethys, Dione, Rhea, ferner für die östlichen und westlichen Elongationen ($u - U = \pm 90°$) und für die oberen und unteren Konjunktionen ($u - U = 0°, 180°$) von Titan, Hyperion und Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 333*—334*).

In der Übersicht der Konstellationen des Jahres 1930 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne und Mond, sowie die Angaben der Epochen, zu welchen

sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeutung der hier verwendeten Zeichen siehe Seite VIII des Vorworts. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen. Die Angaben über Konjunktion und Opposition der Planeten mit der Sonne entsprechen den Zeiten, zu denen der Längenunterschied zwischen Planet und Sonne 0^0 oder 180^0 ist.

Hilfstafeln (S. 335*—354*).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Tafeln für Präzessionswerte (S. 335*—337*).

a) Präzession in Rektaszension und Deklination (Seite 335*)

$$p_\alpha = m + \tfrac{1}{15} n \sin \alpha \operatorname{tg} \delta$$
$$p_\delta = n \cos \alpha$$

b) Präzessionswerte m, n, ψ, π, Π und ε, die mittlere Schiefe der Ekliptik (Seite 335*).

Mit diesen Werten berechnet sich die Präzession für die Elemente einer Bahnebene im System der Ekliptik nach:

$$p_\Omega = \psi - \pi \operatorname{cotg} i \sin (\Pi - \Omega)$$
$$p_i = - \pi \cos (\Pi - \Omega)$$
$$p_\omega = \pi \operatorname{cosec} i \sin (\Pi - \Omega)$$

und im System des Äquators nach:

$$p_{\Omega'} = m - n \operatorname{cotg} i' \cos \Omega'$$
$$p_{i'} = - n \sin \Omega'$$
$$p_{\omega'} = n \cos \Omega' \operatorname{cosec} i'$$

c) Präzession in Länge und Breite (Seite 336*—337*).

$$p_\lambda = \psi + \pi \operatorname{tg} \beta \cos (\Pi - \lambda)$$
$$p_\beta = \pi \sin (\Pi - \lambda)$$

Den Tafeln a) und c) liegen die Präzessionswerte für 1925.0 zugrunde. Über die Bedeutung der Bezeichnungen und die Zahlenwerte vergleiche die Erläuterungen zum Jahrbuch für 1916.

2) Tafel des halben Tagbogens (S. 338*—339*), berechnet mit der Horizontalrefraktion 34′.9 für geographische Breiten von $+30^\circ$ bis $+60^\circ$ und Deklinationen von -30° bis $+30^\circ$.

3) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 340*—343*). Sie geben die Reduktion der für $+50^\circ$ Breite gültigen Zeiten, wie sie in den Ephemeriden enthalten sind, auf geographische Breiten zwischen $+30^\circ$ und $+60^\circ$ und sind mit der Horizontalrefraktion 34′.9 für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.

4) Eine Tafel für die Ermittelung eines Datums in der Julianischen Periode (Seite 344* — 347*). Die Tafel besteht aus zwei Teilen: Der erste Teil (S. 344* — 345*) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage. Man gehe bis zum 4. Oktober des Jahres 1582 mit dem Datum des Julianischen, für spätere Jahre mit dem Datum des Gregorianischen Kalenders in die Tafel ein. Der zweite Teil (S. 346* — 347*) gibt für die Jahre 1860 — 1939 unmittelbar die Anzahl der im Gregorianischen Kalender am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Julianischen Periode verflossenen Tage.

5) Hilfstafeln zur Verwandlung von Mittlerer Zeit in Sternzeit (S. 348*) und von Sternzeit in Mittlere Zeit (S. 349*).

6) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 350* — 351*).

7) Die Tafel zur Berechnung der optischen Mondlibration (S. 352* — 353*) gibt mit dem Argument $\lambda - \Omega$ die Werte $\Delta\lambda$, a und B entsprechend den Gleichungen:

$$\Delta\lambda = \frac{1}{\operatorname{arc} 1'} \operatorname{tang}^2 \frac{1}{2} J \sin 2(\lambda - \Omega)$$

$$a = -\cos(\lambda - \Omega) \sin J$$

$$\operatorname{tang} B = -\sin(\lambda - \Omega) \operatorname{tang} J$$

J = Neigung des Mondäquators gegen die Ekliptik.

Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (s. S. 298*).

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

Bezeichnen noch $L_{☾}$ die mittlere Länge des Mondes, l' und b' die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_{☾} + \Delta\lambda - a(B - \beta)$$

$$b' = B - \beta$$

Der Winkel C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \frac{\cos(L_{☾} + l' + \Delta - ℧)}{\cos \delta_{☾}} = -\sin i \frac{\cos(\alpha_{☾} - \Omega')}{\cos b'},$$

worin $\alpha_{☾}$, $\delta_{☾}$ Rektaszension und Deklination des Mondmittelpunktes, gesehen vom Beobachtungsort aus, bezeichnen; die anderen vorkommenden Größen i, Δ, ℧ und Ω' haben schon auf S. 373* ihre Erklärung gefunden.

8) Eine Tafel der Hilfsgrößen s und c (S. 354*) zur Berechnung der geozentrischen Breite φ' und der geozentrischen Entfernung ϱ eines Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite φ nach den Formeln:

$$\varrho \sin \varphi' = s \sin \varphi$$
$$\varrho \cos \varphi' = c \cos \varphi$$

Darin haben s und c die Bedeutung:

$$s = \frac{1 - e^2}{\sqrt{1 - e^2 \sin^2 \varphi}}, \quad c = \frac{1}{\sqrt{1 - e^2 \sin^2 \varphi}}, \quad e = \sqrt{2\mathfrak{a} - \mathfrak{a}^2}$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung $\mathfrak{a} = \frac{1}{297.0}$ angenommen.

Koordinaten der Sternwarten (S. 355*—361*).

Die Seiten 355*—361* enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich einigermaßen sicher ermitteln ließen.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend gibt die »Korrektion der Sternzeit« die Differenz: Orts-Sternzeit minus Greenwicher Sternzeit an.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung 1 : 297.0 berechnet.

Bei Berechnung von $\log \varrho$ ist die Seehöhe berücksichtigt.

Normalzeiten der wichtigeren Länder (S. 362*).

Hier sind die in den wichtigeren Ländern eingeführten Normalzeiten in zwei Gruppen zusammengestellt, je nachdem sie an den Meridian von Greenwich angeschlossen sind oder einen eigenen Landes-Meridian zugrunde legen.

Berichtigungen.

Jahrbuch 1929, S. 16* Stern 587 12 H. Draconis. Die Deklination ist $+62^\circ 49' 6''.82$ anstatt $+62^\circ 48' 6''.82$.

S. 24* Stern 887 72 Pegasi. Die Rektaszension ist $23^h 30^m 25^s.612$ anstatt $23^h 30^m 25^s.672$.

Jahrbuch 1930, S. 19* Stern 703 110 Herculis. Die jährliche Veränderung in Rektaszension ist $+2^s.5813$ anstatt $-2^s.5813$.

S. 23* Stern 876 Tucanae 25 G. Die Deklination ist $-62^\circ 23' 0''.24$ anstatt $-62^\circ 22' 0''.24$.

S. 25* Bei 30 H. Camel. und ξ Mensae sind die Klammern zu beseitigen, da für diese Sterne Ephemeriden gegeben werden.

S. 158* Stern 866 δ Aquarii. Die Rektaszension ist $22^h 50^m$ anstatt $20^h 50^m$.

Bei Verwendung der von L. Courvoisier in den Astron. Nachr. Bd. **230**, 71 mitgeteilten neuen Position und Eigenbewegung des Sternes BD $+89^\circ 37$ erfordern die mit dem alten Ort berechneten Ephemeriden für die Jahre 1927 und 1928 die Korrektionen:

	in x	in y
1927.0	$-0''.06$	$-0''.21$
1928.0	-0.06	-0.23
1929.0	-0.07	-0.24

Infolge einer Aenderung der Eigenbewegung der südlichen Polarissima CPD $-89^\circ 38$ sind die scheinbaren Koordinaten dieses Sternes in den Jahrbüchern für 1928 und 1929 um folgende Beträge zu ändern:

Korrektion in x

1928	Von Jan. 0	bis Febr. 4	$+1^s.52$
	» Febr. 5	» Apr. 13	$+1.53$
	» Apr. 14	» Juni 20	$+1.54$
	» Juni 21	» Aug. 29	$+1.55$
	» Aug. 30	» Nov. 6	$+1.56$
	» Nov. 7	» Dez. 32	$+1.57$
1929	Von Jan. 0	bis Febr. 2	$+1^s.57$
	» Febr. 3	» Apr. 13	$+1.58$
	» Apr. 14	» Juni 21	$+1.59$
	» Juni 22	» Aug. 29	$+1.60$
	» Aug. 30	» Nov. 6	$+1.61$
	» Nov. 7	» Dez. 32	$+1.62$

Korrektion in y

1928	Von Jan. 0	bis Jan. 30	$+1''.74$
	» Jan. 31	» März 28	$+1.75$
	» März 29	» Mai 27	$+1.76$
	» Mai 28	» Juli 25	$+1.77$
	» Juli 26	» Sept. 22	$+1.78$
	» Sept. 23	» Nov. 20	$+1.79$
	» Nov. 21	» Dez. 32	$+1.80$
1929	Von Jan. 0	bis Jan. 30	$+1''.80$
	» Jan. 31	» März 29	$+1.81$
	» März 30	» Mai 27	$+1.82$
	» Mai 28	» Juli 25	$+1.83$
	» Juli 26	» Sept. 22	$+1.84$
	» Sept. 23	» Nov. 20	$+1.85$
	» Nov. 21	» Dez. 32	$+1.86$

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